X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00001XX Limit03 Answers for No. 9395

[^0]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00002XX Limit03 Answers for No. 9419

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 3-} \mathrm{f}(x)=2\right) \\
.4=\left(\lim _{x \rightarrow(-5.7)^{-}} \mathrm{f}(x)=-6 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 3+} \mathrm{f}(x)=3\right) \quad .3=\left(\lim _{x \rightarrow(-5.7)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^1]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00003XX Limit03 Answers for No. 9428

$$
\begin{aligned}
& \text { Ans } \left.2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0+} \mathrm{f}(x)=4, \lim _{x \rightarrow 0} \mathrm{f}(x)=\text { undefined }\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-1, \lim _{x \rightarrow 0+} \mathrm{g}(x)=-1, \lim _{x \rightarrow 0} \mathrm{~g}(x)=-1\right]
\end{array}\right] \quad\left[\begin{array}{ccc}
\lim _{x \rightarrow 0+} \mathrm{f}(x)+\mathrm{g}(x)=3 & \lim _{x \rightarrow 0-} \mathrm{f}(x)-\mathrm{g}(x)=-3 & \lim _{x \rightarrow 0+} \mathrm{f}(x) \mathrm{g}(x)=-4 \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=4 & \lim _{x \rightarrow 0} \mathrm{f}(x)+\mathrm{g}(x)=\text { undefined } & \text { Math@MUT}
\end{array}\right]\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=4\right) \\
.4=\left(\lim _{x \rightarrow(-1.7)^{-}} \mathrm{f}(x)=-2 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=5\right) \quad .3=\left(\lim _{x \rightarrow(-1.7)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^2]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00004XX Limit03 Answers for No. 9459

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-1, \lim _{x \rightarrow 0+} \mathrm{f}(x)=-1, \lim _{x \rightarrow 0} \mathrm{f}(x)=-1\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-5, \lim _{x \rightarrow 0+} \mathrm{g}(x)=5, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right] \\
.3=\left[\begin{array}{ccc}
\lim _{x \rightarrow 0^{-}} \mathrm{f}(x)+\mathrm{g}(x)=-6 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)-\mathrm{g}(x)=-6 & \lim _{x \rightarrow 0+} \mathrm{f}(x) \mathrm{g}(x)=-5 \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{1}{5} \quad \lim _{x \rightarrow 0} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\text { undefined } & \text { Math@MUT}
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=4\right) \\
.4=\left(\lim _{x \rightarrow(-3.7)^{-}} \mathrm{f}(x)=-4 .\right)
\end{array} .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=5\right) \quad .3=\left(\lim _{x \rightarrow 5 \rightarrow(-3.7)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^3]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00005XX Limit03 Answers for No. 9476

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 1-} \mathrm{f}(x)=0\right) \\
.4=\left(\lim _{x \rightarrow(-1.5)^{-}} \mathrm{f}(x)=-2 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 1+} \mathrm{f}(x)=1\right) \quad .3=\left(\lim _{x \rightarrow(-1.5)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^4]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00006XX Limit03 Answers for No. 9491

$$
\begin{aligned}
& \text { Ans }=\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 3} x^{2}-4 x-2=-5\right) & .2=\left(\lim _{x \rightarrow 3}\left(x^{2}-2\right)(x-4)=-7\right) & .3=\left(\lim _{x \rightarrow 3} \frac{5 x^{2}+x-2}{2 x^{2}-2 x-1}=\frac{46}{11}\right) \\
.4=\left(\lim _{x \rightarrow 9} \frac{3-\sqrt{x}}{9-x}=\frac{1}{6}\right) & .5=\left(\lim _{x \rightarrow 11} \frac{x-11}{\sqrt{x-2}-3}=6\right) & .6=\left(\lim _{x \rightarrow 3} \sqrt{2-x}=\text { undefined }\right) \\
.7=\left(\lim _{x \rightarrow(-3)}|x+1|=2\right) & .8=\left(\lim _{x \rightarrow 3} \frac{|x-3|}{3-x}=\text { undefined }\right) & .9=\left(\lim _{x \rightarrow 5+} \frac{\left|x^{2}-7 x+10\right|}{x-5}=3\right) \\
.10=\left(\lim _{x \rightarrow 0-} \frac{1}{x}+\frac{1}{|x|}=0\right) & .11=\left(\lim _{x \rightarrow(4 / 3)} \frac{3 x^{2}-10 x+8}{|3 x-4|}=\text { undefined }\right) & \text { Math@MUT}
\end{array}\right],\left[\begin{array}{c}
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\end{array}\right] \\
& \operatorname{Ans} 2=\left[\begin{array}{c}
.1=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=3, \lim _{x \rightarrow 0+} \mathrm{f}(x)=3, \lim _{x \rightarrow 0} \mathrm{f}(x)=3\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-4, \lim _{x \rightarrow 0+} \mathrm{g}(x)=4, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right] \\
.3=\left[\begin{array}{ccc}
\lim _{x \rightarrow 0+} \mathrm{f}(x)+\mathrm{g}(x)=7 & \lim _{x \rightarrow 0-} \mathrm{f}(x)-\mathrm{g}(x)=7 & \lim _{x \rightarrow 0-} \mathrm{f}(x) \mathrm{g}(x)=-12 \\
\lim _{x \rightarrow 0+} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{3}{4} & \lim _{x \rightarrow 0} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\text { undefined }
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 1-} \mathrm{f}(x)=0\right) \\
.4=\left(\lim _{x \rightarrow(-4.6)^{-}} \mathrm{f}(x)=-5 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 1+} \mathrm{f}(x)=1\right) \quad .3=\left(\lim _{x \rightarrow(-4.6)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^5]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00007XX Limit03 Answers for No. 9633

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-1, \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)=-1, \lim _{x \rightarrow 0} \mathrm{f}(x)=-1\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-5, \lim _{x \rightarrow 0+} \mathrm{g}(x)=5, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right] \\
.3=\left[\begin{array}{ccc}
\lim _{x \rightarrow 0^{+}} \mathrm{f}(x)+\mathrm{g}(x)=4 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)-\mathrm{g}(x)=-6 & \lim _{x \rightarrow 0-} \mathrm{f}(x) \mathrm{g}(x)=5 \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{1}{5} & \lim _{x \rightarrow 0} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\text { undefined } & \text { Math@MUT}
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 3-} \mathrm{f}(x)=3\right) & .2=\left(\lim _{x \rightarrow 3+} \mathrm{f}(x)=4\right) & .3=\left(\lim _{x \rightarrow 3} \mathrm{f}(x)=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow(-3.7)^{-}} \mathrm{f}(x)=-3 .\right) & .5=\left(\lim _{x \rightarrow(-3.7)^{+}} \mathrm{f}(x)=-3 .\right) & .6=\left(\lim _{x \rightarrow(-3.7)} \mathrm{f}(x)=-3 .\right)
\end{array}\right]
\end{aligned}
$$

[^6]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00008XX Limit03 Answers for No. 9711

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 2-} \mathrm{f}(x)=2\right) \\
.4=\left(\lim _{x \rightarrow(-2.9)^{-}} \mathrm{f}(x)=-2 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 2+} \mathrm{f}(x)=3\right) \quad .3=\left(\lim _{x \rightarrow(-2.9)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^7]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00009XX Limit03 Answers for No. 9784

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 3-} \mathrm{f}(x)=3\right) \\
.4=\left(\lim _{x \rightarrow(-3.3)^{-}} \mathrm{f}(x)=-3 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 3+} \mathrm{f}(x)=4\right) \quad .3=\left(\lim _{x \rightarrow(-3.3)^{+}} \mathrm{f}(x)=-3 .\right) \quad .6=\left(\lim _{x \rightarrow(-3.3)} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^8]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00010XX Limit03 Answers for No. 10143

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 1-} \mathrm{f}(x)=1\right) \\
.4=\left(\lim _{x \rightarrow(-4.9)^{-}} \mathrm{f}(x)=-4 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 1+} \mathrm{f}(x)=2\right) \quad .3=\left(\lim _{x \rightarrow(-4.9)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^9]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00011XX Limit03 Answers for No. 10626

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 3-} \mathrm{f}(x)=2\right) \\
.4=\left(\lim _{x \rightarrow(-3.7)^{-}} \mathrm{f}(x)=-4 .\right)
\end{array} .2=\left(\lim _{x \rightarrow 3+} \mathrm{f}(x)=3\right) \quad .3=\left(\lim _{x \rightarrow(-3.7)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00012XX Limit03 Answers for No. 11002

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\begin{aligned}
& \text { Ans } \left.2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-1, \lim _{x \rightarrow 0+} \mathrm{f}(x)=1, \lim _{x \rightarrow 0} \mathrm{f}(x)=\text { undefined }\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=1, \lim _{x \rightarrow 0+} \mathrm{g}(x)=1, \lim _{x \rightarrow 0} \mathrm{~g}(x)=1\right]
\end{array}\right] \begin{array}{ccc}
\lim _{x \rightarrow 0^{-}} \mathrm{f}(x)+\mathrm{g}(x)=2 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)-\mathrm{g}(x)=-2 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x) \mathrm{g}(x)=1 \\
.3=\left[\begin{array}{ll}
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=-1 & \mathrm{f}(x)-\mathrm{g}(x)=\text { undefined }
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 2-} \mathrm{f}(x)=2\right) \\
.4=\left(\lim _{x \rightarrow(-2.4)^{-}} \mathrm{f}(x)=-2 .\right)
\end{array} .5=\left(\lim _{x \rightarrow 2+} \mathrm{f}(x)=3\right) \quad .3=\left(\lim _{x \rightarrow 2} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^10]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00013XX Limit03 Answers for No. 11188

$$
\begin{aligned}
& \text { Ans } \left.2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0+} \mathrm{f}(x)=4, \lim _{x \rightarrow 0} \mathrm{f}(x)=\text { undefined }\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-3, \lim _{x \rightarrow 0+} \mathrm{g}(x)=-3, \lim _{x \rightarrow 0} \mathrm{~g}(x)=-3\right]
\end{array}\right] \begin{array}{ccc}
\lim _{x \rightarrow 0-} \mathrm{f}(x)+\mathrm{g}(x)=-7 & \mathrm{f}(x)-\mathrm{g}(x)=7 & \lim _{x \rightarrow 0-} \mathrm{f}(x) \mathrm{g}(x)=12 \\
\lim _{x \rightarrow 0^{+}} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{-4}{3} & \lim _{x \rightarrow 0} \mathrm{~g}(x)-\mathrm{f}(x)=\text { undefined } & \text { Math@MUT}
\end{array}\right] \\
& \text { Ans3 }\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 2-} \mathrm{f}(x)=2\right) & .2=\left(\lim _{x \rightarrow 2+} \mathrm{f}(x)=3\right) & .3=\left(\lim _{x \rightarrow 2} \mathrm{f}(x)=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow(-4.5)-} \mathrm{f}(x)=-4 .\right) & .5=\left(\lim _{x \rightarrow(-4.5)+} \mathrm{f}(x)=-4 .\right) & .6=\left(\lim _{x \rightarrow(-4.5)} \mathrm{f}(x)=-4 .\right)
\end{array}\right]
\end{aligned}
$$

[^11]X Math@MUT XXXXxXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX $\mathbf{M} / 1-6600504-00014 X X$ Limit03 Answers for No. 11505

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=1, \lim _{x \rightarrow 0+} \mathrm{f}(x)=1, \lim _{x \rightarrow 0} \mathrm{f}(x)=1\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-4,\right. \\
\left.\lim _{x \rightarrow 0+} \mathrm{g}(x)=4, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right] \\
.3=\left[\begin{array}{lll}
\lim _{x \rightarrow 0+} \mathrm{f}(x)+\mathrm{g}(x)=5 & \lim _{x \rightarrow 0-} \mathrm{f}(x)-\mathrm{g}(x)=5 & \lim _{x \rightarrow 0+} \mathrm{f}(x) \mathrm{g}(x)=4 \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{-1}{4} & \lim _{x \rightarrow 0} \frac{\mathrm{~g}(x)}{\mathrm{f}(x)}=\text { undefined } \quad \text { Math@MUT }
\end{array}\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 4-} \mathrm{f}(x)=4\right) & .2=\left(\lim _{x \rightarrow 4+} \mathrm{f}(x)=5\right) & .3=\left(\lim _{x \rightarrow 4} \mathrm{f}(x)=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow(-4.9)^{-}} \mathrm{f}(x)=-4 .\right) & .5=\left(\lim _{x \rightarrow(-4.9)^{+}} \mathrm{f}(x)=-4 .\right) & .6=\left(\lim _{x \rightarrow(-4.9)} \mathrm{f}(x)=-4 .\right)
\end{array}\right]
\end{aligned}
$$

[^12]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00015XX Limit03 Answers for No. 12113

$$
\begin{aligned}
& \text { Ans } \left.\left.2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0+} \mathrm{f}(x)=4, \lim _{x \rightarrow 0} \mathrm{f}(x)=\text { undefined }\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=2, \lim _{x \rightarrow 0+} \mathrm{g}(x)=2, \lim _{x \rightarrow 0} \mathrm{~g}(x)=2\right]
\end{array}\right] \begin{array}{ccc}
\lim _{x \rightarrow 0^{+}} \mathrm{f}(x)+\mathrm{g}(x)=6 & \lim _{x \rightarrow 0^{-}} \mathrm{f}(x)-\mathrm{g}(x)=-6 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x) \mathrm{g}(x)=8 \\
. \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=-2 & \lim _{x \rightarrow 0} \mathrm{~g}(x)-\mathrm{f}(x)=\text { undefined } & \text { Math@MUT}
\end{array}\right]\right] \\
& \text { Ans3 }\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 1-} \mathrm{f}(x)=1\right) & .2=\left(\lim _{x \rightarrow 1+} \mathrm{f}(x)=2\right) & .3=\left(\lim _{x \rightarrow 1} \mathrm{f}(x)=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow(-2.6)-} \mathrm{f}(x)=-2 .\right) & .5=\left(\lim _{x \rightarrow(-2.6)^{+}} \mathrm{f}(x)=-2 .\right) & .6=\left(\lim _{x \rightarrow(-2.6)} \mathrm{f}(x)=-2 .\right)
\end{array}\right]
\end{aligned}
$$

[^13]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00016XX Limit03 Answers for No. 12541

$$
\begin{aligned}
& \text { Ans } \left.\left.2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-2, \lim _{x \rightarrow 0+} \mathrm{f}(x)=-2, \lim _{x \rightarrow 0} \mathrm{f}(x)=-2\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-2, \lim _{x \rightarrow 0+} \mathrm{g}(x)=2, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right]
\end{array}\right] \begin{array}{c}
\lim _{x \rightarrow 0-} \mathrm{f}(x)-\mathrm{g}(x)=0 \\
\lim _{x \rightarrow 0-} \mathrm{f}(x)+\mathrm{g}(x)=-4 \quad \mathrm{f}(x) \mathrm{g}(x)=-4 \\
\lim _{x \rightarrow 0+} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=-1 \quad \lim _{x \rightarrow 0} \mathrm{f}(x) \mathrm{g}(x)=\text { undefined }
\end{array}\right] \text { Math@MUT}\right] \\
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=5\right) \\
.4=\left(\lim _{x \rightarrow(-1.9)^{-}} \mathrm{f}(x)=-1 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=6\right) \quad .3=\left(\lim _{x \rightarrow(-1.9)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^14]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00017XX Limit03 Answers for No. 12590

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 1-} \mathrm{f}(x)=1\right) \\
.4=\left(\lim _{x \rightarrow(-4.3)-} \mathrm{f}(x)=-4 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 1+} \mathrm{f}(x)=2\right) \quad .3=\left(\lim _{x \rightarrow(-4.3)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

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\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0+} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0} \mathrm{f}(x)=-4\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-3, \lim _{x \rightarrow 0+} \mathrm{g}(x)=3, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right] \\
.3=\left[\begin{array}{lll}
\lim _{x \rightarrow 0^{-}} \mathrm{f}(x)+\mathrm{g}(x)=-7 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)-\mathrm{g}(x)=-7 & \lim _{x \rightarrow 0-} \mathrm{f}(x) \mathrm{g}(x)=12 \\
\lim _{x \rightarrow 0+} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=\frac{-4}{3} & \lim _{x \rightarrow 0} \mathrm{f}(x)+\mathrm{g}(x)=\text { undefined } & \text { Math@MUT}
\end{array}\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 4-} \mathrm{f}(x)=3\right) & .2=\left(\lim _{x \rightarrow 4+} \mathrm{f}(x)=4\right) & .3=\left(\lim _{x \rightarrow 4} \mathrm{f}(x)=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow(-2.1)^{-}} \mathrm{f}(x)=-3 .\right) & .5=\left(\lim _{x \rightarrow(-2.1)^{+}} \mathrm{f}(x)=-3 .\right) & .6=\left(\lim _{x \rightarrow(-2.1)} \mathrm{f}(x)=-3 .\right)
\end{array}\right]
\end{aligned}
$$

[^15]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00019XX Limit03 Answers for No. 12641

$$
\begin{aligned}
& \text { Ans } 1=\left[\begin{array}{ccc}
.1=\left(\lim _{x \rightarrow 2} 2 x^{3}+3 x^{2}+1=29\right) & .2=\left(\lim _{x \rightarrow 3}\left(2 x^{2}+x+3\right)\left(x^{2}+3 x\right)=432\right) & .3=\left(\lim _{x \rightarrow 1} \frac{x+1}{2 x^{2}-2}=\text { undefined }\right) \\
.4=\left(\lim _{x \rightarrow 1} \frac{1-\sqrt{x}}{x-1}=\frac{-1}{2}\right) & .5=\left(\lim _{x \rightarrow 23} \frac{x-23}{5-\sqrt{x+2}}=-10\right) & .6=\left(\lim _{x \rightarrow 3} \sqrt{x-1}=\sqrt{2}\right) \\
.7=\left(\lim _{x \rightarrow 1}|x+3|=4\right) & .8=\left(\lim _{x \rightarrow 2} \frac{2-x}{|x-2|}=\text { undefined }\right) & .9=\left(\lim _{x \rightarrow 1+} \frac{x-1}{\left|x^{2}+2 x-3\right|}=\frac{1}{4}\right) \\
.10=\left(\lim _{x \rightarrow 0+} \frac{4}{x}-\frac{4}{|x|}=0\right) & .11=\left(\lim _{x \rightarrow(3 / 5)} \frac{|5 x-3|}{15 x^{2}+11 x-12}=\text { undefined }\right) & \text { Math@MUT}
\end{array}\right],\left[\begin{array}{c}
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a \\
t \\
h \\
@ \\
M \\
U \\
T \\
\vdots \\
:(1)
\end{array}\right] \\
& \text { Ans2 } \left.=\left[\begin{array}{c}
. l=\left[\lim _{x \rightarrow 0-} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)=-4, \lim _{x \rightarrow 0} \mathrm{f}(x)=-4\right] \\
.2=\left[\lim _{x \rightarrow 0-} \mathrm{g}(x)=-4, \lim _{x \rightarrow 0^{+}} \mathrm{g}(x)=4, \lim _{x \rightarrow 0} \mathrm{~g}(x)=\text { undefined }\right]
\end{array}\right] \begin{array}{ccc}
\lim _{x \rightarrow 0^{+}} \mathrm{f}(x)+\mathrm{g}(x)=0 & \lim _{x \rightarrow 0^{+}} \mathrm{f}(x)-\mathrm{g}(x)=-8 & \lim _{x \rightarrow 0^{-}} \mathrm{f}(x) \mathrm{g}(x)=16 \\
\lim _{x \rightarrow 0-} \frac{\mathrm{f}(x)}{\mathrm{g}(x)}=1 & \lim _{x \rightarrow 0} \mathrm{f}(x)-\mathrm{g}(x)=\text { undefined } & \text { Math@MUT}
\end{array}\right] \\
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=5\right) \\
.4=\left(\lim _{x \rightarrow(-2.6)^{-}} \mathrm{f}(x)=-2 .\right)
\end{array} .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=6\right) \quad .3=\left(\lim _{x \rightarrow 5 \rightarrow(-2.6)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^16]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00020XX Limit03 Answers for No. 12674

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=5\right) \\
.4=\left(\lim _{x \rightarrow(-4.1)^{-}} \mathrm{f}(x)=-4 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=6\right) \quad .3=\left(\lim _{x \rightarrow(-4.1)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^17]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00021XX Limit03 Answers for No. 12728

$$
\begin{aligned}
& \text { Ans3 }=\left[\begin{array}{c}
. l=\left(\lim _{x \rightarrow 5-} \mathrm{f}(x)=4\right) \\
.4=\left(\lim _{x \rightarrow(-3.1)^{-}} \mathrm{f}(x)=-4 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 5+} \mathrm{f}(x)=5\right) \quad .3=\left(\lim _{x \rightarrow(-3.1)^{+}} \mathrm{f}(x)=-4 .\right) \quad .6=\left(\lim _{x \rightarrow(-3.1)} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^18]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600504-00022XX Limit03 Answers for No. 14247

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{c}
.1=\left(\lim _{x \rightarrow 4-} \mathrm{f}(x)=3\right) \\
.4=\left(\lim _{x \rightarrow(-5.8)^{-}} \mathrm{f}(x)=-6 .\right)
\end{array} \quad .2=\left(\lim _{x \rightarrow 4+} \mathrm{f}(x)=4\right) \quad .3=\left(\lim _{x \rightarrow(-5.8)^{+}} \mathrm{f}(x)=\text { undefined }\right)\right]
\end{aligned}
$$

[^19]
##  [ $>$


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[^1]:    X [Page $=0002]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[^2]:    X [Page $=0003]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[^3]:    X [Page $=0004]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[^4]:    X [Page $=0005]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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