

	x	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
Ans01	f(x)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ans02	f(x)	24	22	20	18	16	14	12	10	8	6	4	2	0	-2	-4	-6	-8	-10	-12	-14	-16
Ans03	f(x)	103	84	67	52	39	28	19	12	7	4	3	4	7	12	19	28	39	52	67	84	103
Ans04	f(x)	64	49	36	25	16	9	4	1	0	1	4	9	16	25	36	49	64	81	100	121	144
Ans05	f(x)	67	52	39	28	19	12	7	4	3	4	7	12	19	28	39	52	67	84	103	124	147
Ans06	f(x)	12	11	10	9	8	7	6	5	4	3	2	1	0	11	13	15	17	19	21	23	25
Ans07	f(x)	-18	-16	-14	-12	-10	-8	-6	-4	NA	6	5	NA	4	4	4	4	4	4	4	4	4
Ans08																						

$$f(x) = -3x - 2$$

$$f(-5) = 13, \quad f(-4) = 10, \quad f(0) = -2, \quad f(3) = -11, \quad f(5) = -17$$

Ans09

$$f(x) = \begin{cases} -2x + 2 & ; \quad x \leq -1 \\ x + 3 & ; \quad x > -1 \end{cases}$$

$$f(-4) = 10, \quad f(-1) = 4, \quad f(0) = 3, \quad f(1) = 4, \quad f(2) = 5$$

Ans010

$$f(x) = \begin{cases} -2x + 1 & ; \quad x < -2 \\ x + 2 & ; \quad -2 \leq x < 3 \\ 5 & ; \quad x \geq 3 \end{cases}$$

$$f(-3) = 7, \quad f(-2) = 0, \quad f(0) = 2, \quad f(1) = 3, \quad f(3) = 5$$

$$Ans11 = [{"Circle", Center = (3, 4), Radius = 10}], \quad Ans12 = [{"Line", Slope = \frac{-4}{5}, y-intercept = (0, 3)}], \quad Ans13 = [{"Parabola", Vertex = (1, -5)}], \quad \begin{matrix} (: \\ : \\ : \\ : \end{matrix}$$

$$Ans14 = [(x - 2)^2 + (y + 1)^2 = 29]$$

Ans15

x	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10
f(x)	-81	-62	-45	-30	-17	-6	3	10	15	18	19	18	15	10	3	-6	-17	-30	-45	-62	-81
g(x)	-206	-177	-150	-125	-102	-81	-62	-45	-30	-17	-6	3	10	15	18	19	18	15	10	3	-6
h(x)	-91	-72	-55	-40	-27	-16	-7	0	5	8	9	8	5	0	-7	-16	-27	-40	-55	-72	-91
k(x)	-65	-46	-29	-14	-1	10	19	26	31	34	35	34	31	26	19	10	-1	-14	-29	-46	-65

$$Ans16 = [A(t) = 5t + 60, A(200) = 1060, A(0) = 60]$$

$$Ans17 = \left[A(x) = \frac{(100-x)x}{2}, A(20) = 800, A(30) = 1050, A(50) = 1250 \right]$$

$$Ans18 = [V(x) = (12 - 2x)(20 - 2x)x, V(2) = 256, V(2.5) = 262.500, V(3) = 252]$$

$$Ans19 = [V(x) = 190(70 - 2x)x, V(5) = 57000, V(10) = 95000, V(15) = 114000, V(20) = 114000]$$

$$Ans20 = [C(x) = 20000\sqrt{25 + x^2} + 840000 - 42000x, C(3) = 830619.0379, C(5) = 771421.3562, C(7) = 718046.5053, C(10) = 643606.7978]$$

