

35 $(x - 2)^2 + (y + 3)^2 = 25$ 37 $\left(x - \frac{1}{4}\right)^2 + y^2 = 5$

39 $(x + 4)^2 + (y - 6)^2 = 41$

41 $(x + 3)^2 + (y - 6)^2 = 9$

43 $(x + 4)^2 + (y - 4)^2 = 16$

45 $(x - 1)^2 + (y - 2)^2 = 34$ 47 $C(2, -3); r = 7$

49 $C(0, -2); r = 11$ 51 $C(3, -1); r = \frac{1}{2} \sqrt{70}$

53 $C(-2, 1); r = 0$ (un punto)

55 No una circunferencia, porque r^2 no puede ser igual a -2

57 $y = \sqrt{36 - x^2}; y = -\sqrt{36 - x^2}; x = \sqrt{36 - y^2}; x = -\sqrt{36 - y^2}$

59 $y = -1 + \sqrt{49 - (x - 2)^2}; y = -1 - \sqrt{49 - (x - 2)^2}; x = 2 + \sqrt{49 - (y + 1)^2}; x = 2 - \sqrt{49 - (y + 1)^2}$

61 $(x + 3)^2 + (y - 2)^2 = 4^2$ 63 $y = -\sqrt{4^2 - x^2}$

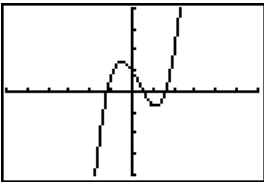
65 (a) Dentro (b) Sobre (c) Fuera

67 (a) 2 (b) $3 \pm \sqrt{5}$

69 $(x + 2)^2 + (y - 3)^2 = 25$ 71 $\sqrt{5}$

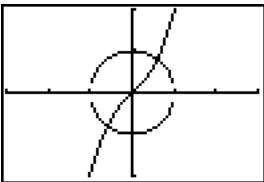
73 $(-\infty, -3) \cup (2, \infty)$ 75 $(-1, 0) \cup (0, 1)$ 77 (2)

79 $-1.2, 0.5, 1.6$



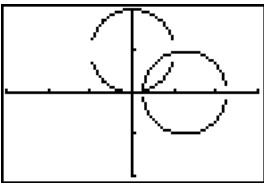
$[-6, 6]$ por $[-4, 4]$

81 $(0.6, 0.8), (-0.6, -0.8)$

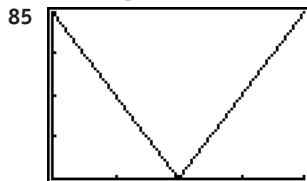


$[-3, 3]$ por $[-2, 2]$

83 $(0.999, 0.968), (0.251, 0.032)$

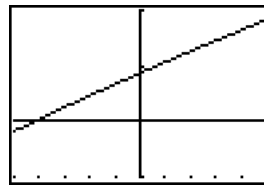


$[-3, 3]$ por $[-2, 2]$



$[0, 4]$ por $[0, 4]$

87 (a) 1126 pies/s (b) -42°C

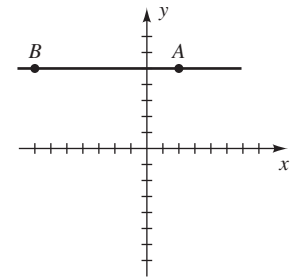
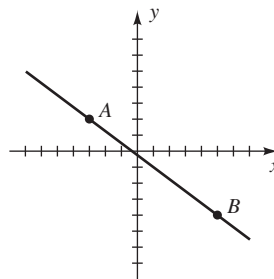


$[-50, 50, 10]$ por $[900, 1200, 100]$

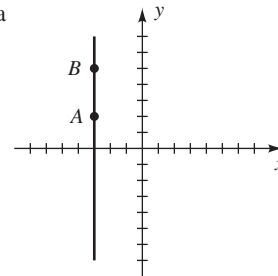
EJERCICIOS 3.3

1 $m = -\frac{3}{4}$

3 $m = 0$



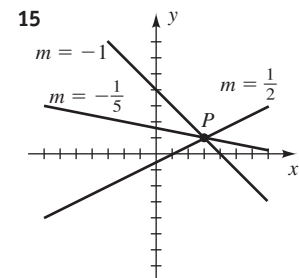
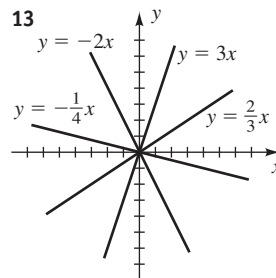
5 m no está definida



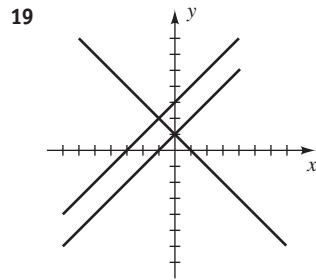
7 Las pendientes de lados opuestos son iguales.

9 Las pendientes de lados opuestos son iguales y las pendientes de dos lados adyacentes son recíprocos negativos

11 $(-12, 0)$



17 $y + 3 = \pm \frac{5}{4}(x - 2)$



21 (a) $x = 5$ (b) $y = -2$ 23 $4x + y = 17$

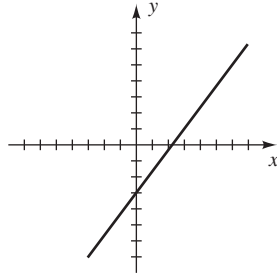
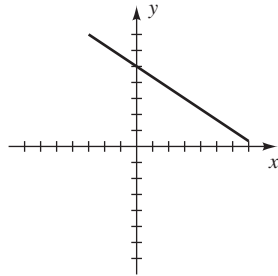
25 $3x + y = 12$ 27 $11x + 7y = 9$

29 $5x - 2y = 18$ 31 $5x + 2y = 29$

33 $y = \frac{3}{4}x - 3$ 35 $y = -\frac{1}{3}x + \frac{11}{3}$

37 $5x - 7y = -15$ 39 $y = -x$

41 $m = -\frac{2}{3}, b = 5$ 43 $m = \frac{4}{3}, b = -3$



45 (a) $y = 3$ (b) $y = -\frac{1}{2}x$ (c) $y = -\frac{3}{2}x + 1$

(d) $y + 2 = -(x - 3)$

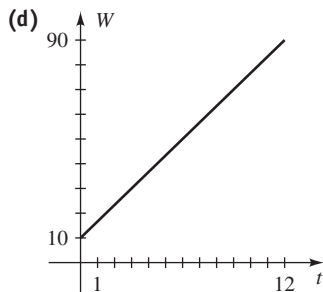
47 $\frac{x}{3/2} + \frac{y}{-3} = 1$ 49 $(x - 3)^2 + (y + 2)^2 = 49$

51 Aproximadamente 23 semanas

53 (a) 25.2 ton (b) De hasta 3.4 ton

55 (a) $y = \frac{5}{14}x$ (b) 58

57 (a) $W = \frac{20}{3}t + 10$ (b) 50 lb (c) 9 años



59 $H = -\frac{8}{3}T + \frac{7520}{3}$

61 (a) $T = 0.032t + 13.5$ (b) 16.54°C

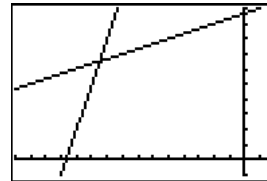
63 (a) $E = 0.55R + 3600$ (b) $P = 0.45R - 3600$

(c) \$8000

65 (a) Sí: la criatura en $x = 3$ (b) No

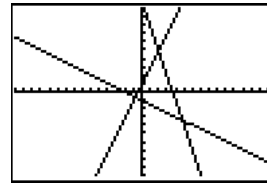
67 34.95 mi/h 69 $a = 0.321; b = -0.9425$

71 $(-19, 13)$



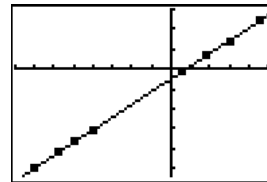
$[-30, 3, 2]$ por $[-2, 20, 2]$

73 $(-0.8, -0.6), (4.8, -3.4), (2, 5)$; triángulo rectángulo isósceles



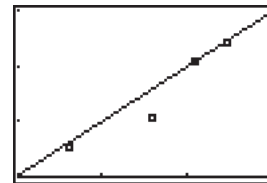
$[-15, 15]$ por $[-10, 10]$

75 $y = 3.2x - 2.6$



$[-8, 5]$ por $[-27, 15, 5]$

77 (b) $y = 97.4x - 192,824$ (redondeado)



$[1980, 2010, 10]$ por $[0, 3000, 1000]$

(c) \$2,107,895; \$2,205,263

EJERCICIOS 3.4

1 -6, -4, -24 3 -12, -22, -36

5 (a) $5a - 2$ (b) $-5a - 2$ (c) $-5a + 2$

(d) $5a + 5h - 2$ (e) $5a + 5h - 4$ (f) 5