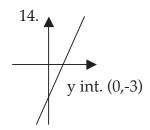
SOLUTIONS:

- 1. If you draw 4 apples you will be sure that you will get 2 apples of one kind.
- 2. registered: $0.8 \times 150 = 120$ people 150-120 = 30 not registered
- 3.3/5,0.6,60%
- 4. a) -112/5 b) -262/5 c) -106
- 5. a) 5.56 b) 6467.63 c) 13.098
- 6. a) x^{10} b) $x^{-4}y^6 = \frac{y^6}{x^4}$ c) $x^{-10}y^4 = \frac{y^4}{x^{10}}$
- 7. One US dollar is smaller.
- = 0.9x
- 8. 20.4, 122.4
- 9. 8.15 hrs, 13.85 mi/hr
- 10. L=18 in. W=4 in.
- 11. $2/3 \times 3/4 = 1/2$
- 12. a) 7/2 b) 6,-6 c) 4, -3 d) –2 e) 7, -13
- 13. a) $x = \frac{5+2y}{3}$, $y = \frac{5-3x}{-2} = \frac{3x-5}{2}$
 - b) x = 7 y, y = 7 x



- 16. $P = 120+12 \pi \approx 157.7 \text{ ft}$ $A = 1,152+72 \pi \approx 1,378.2 \text{ ft}^2$
- 17. 7/27=25.93% 18. \$ 5,961.78
- 19. 2 years ago: salary = x

Last year : x - 0.1x

This year: 0.9x

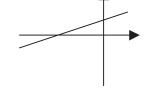
Next year: 0.9x+0.1(0.9x)=

= 0.99x

Answer: NO

20. x-int: (-15/2,0) y-int: (0,15/7)

slope = 2/7



- 21. a) 3,-3 b) 1.63 c) 35.2 d) 12,549,704.2
- 23. a) 2.5 b) 0.102 24. -1.058

- 15. (B,T,C): (0,2,3), (0,6,0), (1,0,4), (1,4,1), (2,2,2), (3,0,3), (3,4,0), (9,0,0),...
- 22. a) need to factor out 3 first before simplifying; need to divide both sides by 3 (not subtract 3)
 - b) do not add -3 to both sides; can not subtract 2 (need to divide by 2) both sides; divide by -4 (not subtract) both sides
 - c) $5(x^2y^3) = 5x^2y^3$