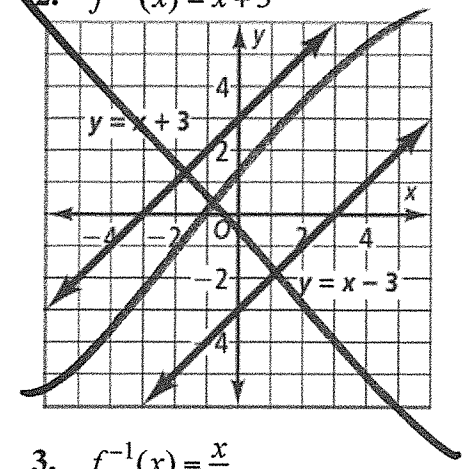
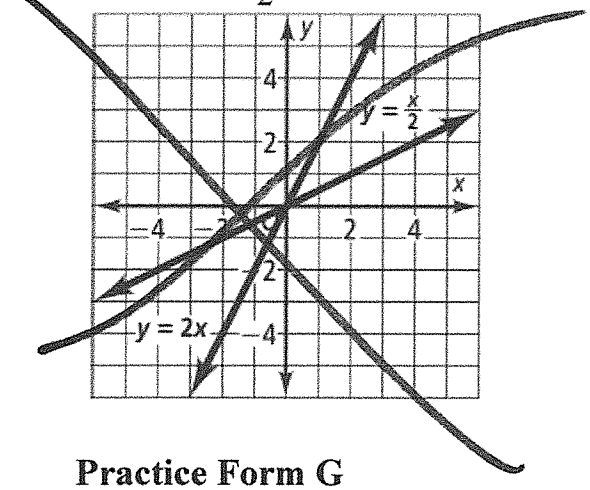
2. $f^{-1}(x) = x + 3$



3. $f^{-1}(x) = \frac{x}{2}$



Practice Form G

1. $\frac{1}{4}x - 5 = y$

2. $\frac{n}{4} + 7 = 9$

3. $P = \frac{1}{2}q + 9$

4. $5n + 8 = -27$

5. $\frac{a}{4} + 1.5 = b$

6. $p = 0.85t + 3.95$

7. $e = 7.25n$

8. $p = 12w + 30$

9. $f = 60h + 75$

10. $d = 0.5h + 1$

11. $j = 3b - 3$; 12

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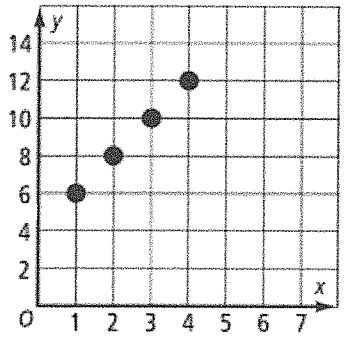
12. $r = 1.5(m - 1) + 4.25$; \$20.75
13. $A = (w + 4)w$; 96 in^2
14. $A = (2w + 3)w$; 44 ft^2
15. $A = \frac{1}{2}(4h - 2)h$; 120 m^2
16. Answers may vary. Sample: $a = \sqrt{b}$
17. Answers may vary. Sample: The height of a soccer ball is a function of the time since it was kicked.
18. yes; $y = 12x$, where y is inches and x is feet, is a linear function.
19. **a.**



b. $y = 2x + 4$

c. yes; it is a linear function as the points on the graph can be connected with a straight line.

Practice Form K

1. $y = \frac{1}{3}x - 8$
2. $\frac{t}{7} + 12 = v$
3. $z = 2y + 6$
4. $8a + 10 = b$
5. $p = 0.75t + 7.95$
6. $m = 12n$
7. $f = 10m + 4.75$
8. $a = 2s - 2$; 20
9. $f = 2d + 5.75$; \$33.75
10. $A = (w + 6)(w) = w^2 + 6w$; 216 ft^2
11. $A = (3w + 7)(w) = 3w^2 + 7w$; 48 m^2
12. $A = 4h^2 - 5h$; 75 cm^2

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13. continuous; The function that models this relationship is $P = 4s$, where P is the perimeter of the square and s is the side length. This function is continuous because the side length can be any real number greater than 0.
14. Answers may vary. Sample: Adding money to a non-interest bearing bank account. If the money goes into a bank account that earns compound interest, then the function would become nonlinear.

Reteaching

1. $t = 7s + 4$
2. $\frac{a}{5} = b$
3. $3p - 8 = x$
4. $y = \frac{1}{2}x + 10$
5. $k = h + 23$
6. $15 - 2a = b$
7. $m = 5n + 6$
8. $17 - 3d = c$
9. $6n + 5 = 17$
10. $d = \frac{b}{4} - 8$
11. $b = \frac{c}{12}$; 120 boxes
12. $c = 0.15m + 45$; 120
13. $B = 55h + 60$; \$225
14. $c = 45t + 10$; \$280

Think About a Plan

1. The "?"
2. Let d = the distance between the wall and the lens and let w = the desired image width.
3. $d = 1.8w$
4. Substitute 7 for w in the equation and simplify.
5. no; $d = 1.8(7) = 12.6$
6. Substitute 12 for d in the equation and solve for w.
7. $6\frac{2}{3}$ ft; $12 = 1.8w$ so $w = 6\frac{2}{3}$

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