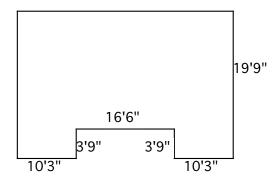
- A stack of 50 pennies stands 3 inches high. To the nearest foot, how high would a stack 1. of 1 million pennies reach?
- 2. Find the perimeter (P) and area (A) of the following rectangular room.



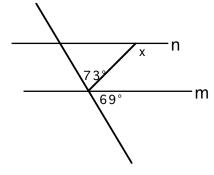
- Find the solution for x over the set of integers: x + 5 = -31 2x3.
  - (a) -36

- (b) -18 (c)  $-\frac{26}{3}$  (d) -12 (e) None of these
- Find the missing angle x in the drawing below. 4.

Assume lines n and m are parallel.

- (a) 38°
- (b) 218°
- (c) 69°

- (d) 142°
- (e) None of these



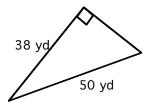
- If 1 inch = 2.54 cm, convert 69 inches to centimeters. Round to the nearest centimeter. 5.
  - (a) 27
- (b) 72
- (c) 175
- (d) 326
- (e) None of these
- 6. Find the volume of a right circular cylinder with radius 4 feet and height 6 feet. Use the  $\pi$  key in your calculations. Round to the nearest cubic foot.
  - (a) 151
- (b) 25
- (c) 302
- (d) 452

(e) None of these

- Find the area of the given triangle. Round to the nearest square yard. 7.
  - (a) 120

(e) 1,900

- (b) 608
- (c) 950
- (d) 1,216



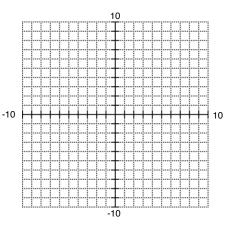
- 8. The formula for converting degrees Celsius (C) to degrees Fahrenheit (F) is  $F = \frac{9}{5}C + 32$ . Celicia reads that the temperature is 85°F in Sarasota, Florida. What is the Celsius temperature to the nearest degree?
  - (a) 15
- (b) 29
- (c) 79
- (d) 185
- (e) None of these

- Evaluate  $(2a 4b)^2$  for a = -4 and b = 3. 9.
  - (a) 400
- (b) -20
- (c) 16 (d) 208
- (e) None of these
- Solve the equation for x: 5 + 3(5x 3) = 4(3x + 1)10.

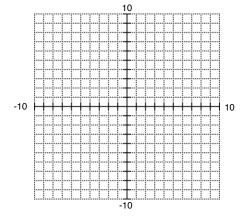
- (a)  $\frac{8}{3}$  (b) 1 (c)  $\frac{2}{3}$  (d)  $\frac{5}{3}$  (e) None of these
- If (x + y)(x y) = 20 and x + y = 10, then  $x \cdot y = ?$ 11.
- Factor completely:  $3x^3 12x$ 12.
- Solve for x: 2(x+3)(x-4)(3x-1) = 013.
- 14. Jeremiah scores a 73 and a 79 on two tests. If the final exam counts as two tests, what score must be make on the final exam to bring his average up to 80 (with no rounding)?

Graph.

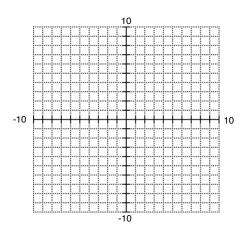
15. 
$$y = -\frac{2}{3}x + 4$$



16. 
$$3x - 2y = 6$$



17. 
$$y = (x+2)^2 - 4$$



Simplify.

18. 
$$\left(6a^2b\right)\left(-3a^2b^5\right)^2$$
 19.  $\frac{3}{2x} + \frac{4}{3x} - \frac{5}{4x}$  20.  $\left(3x - 5\right)^2$ 

$$19. \qquad \frac{3}{2x} + \frac{4}{3x} - \frac{5}{4x}$$

20. 
$$(3x-5)^2$$