

T3-04 Number: _____ Name: _____ Period: _____

Write the equation that describes each line in slope-intercept form.

1. slope = 8, y-intercept = 2

2. slope = $\frac{1}{2}$, y-intercept = -6

3. slope = 0, y-intercept = -3

4. slope = undefined, x-intercept = 4

Write the equation in slope-intercept form for the line with the given slope that contains the given point.

5. slope = 2; (-1, 0)

6. slope = 0; (4, -2)

7. slope = 8; (1, 8)

8. slope = -3; (5, -7)

9. slope = $-\frac{1}{2}$; (4, -1)

10. slope = $\frac{2}{5}$; (-10, 6)

11. slope = $\frac{3}{4}$; (12, 0)

12. slope = $-\frac{7}{8}$; (0, -5)

13. slope = $\frac{1}{5}$; (2, -6)

14. slope = $-\frac{1}{2}$; (-3, 4)

15. What is the decimal approximation of $\sqrt{37}$ to the nearest tenth? Do not use a calculator.

16. What is the decimal approximation of $\sqrt{55}$ to the nearest tenth? Do not use a calculator.

17. Are the following rational or irrational numbers?

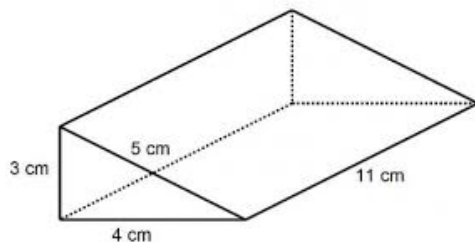
a) 4.65

b) $2.\bar{8}$

c) 3.656656665...

d) 12.11111...

18) What is the surface area of the figure below:



19) What is the volume of a sphere with a radius of 8 feet?

20) Solve the following for the unknown variable:

$$3r + 7 - 9r = -3(2r + 6) - 12$$