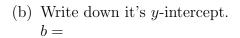
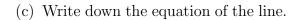
4.12 Do Now Quiz: Linear equations

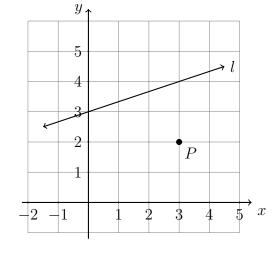
CCSS.HSG.GPE.B.5

1. The line l is graphed at right.

(a) Write down the line's slope. m =







- (d) Draw a line parallel to l through point P. (use a straight edge for full credit)
- 2. Find the slope of the line through the points (-1,3) and (5,0).

3. Write the linear equation $y-5=\frac{2}{3}(x-3)$ in the form y=mx+c.

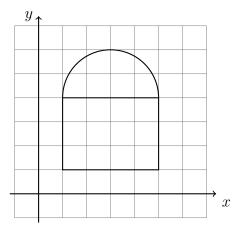
4. Is the point (4,7) on the line y = 3x - 5? Support your answer algebraically.

5. A sphere has a radius of 5 centimeters.

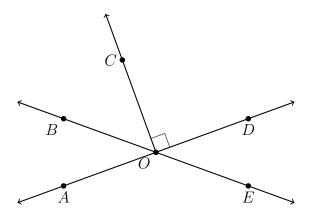
CCSSM.8.G.C.9

- (a) Write down the general formula for the volume of a sphere.
- (b) Find the volume of the sphere, rounded to the nearest cubic centimeter.

6. Find the *perimeter* of the shape shown below composed of a rectangle and circular cap. Leave your answer as an exact value in terms of π .

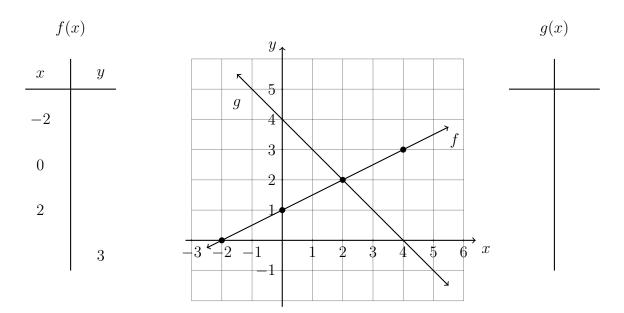


7. In the diagram below $\angle BOC = 7x - 50$ and $\angle DOE = 4x - 3$. CCSSM.8.G.B.5 Find $m \angle AOB$.



8. A line has a gradient (slope) of $\frac{3}{4}$ and passes through the point (8, 3). Find the equation of the line in the form y = mx + b.

- 9. Two lines are graphed below.
 - (a) Complete the T-tables for each.
 - (b) Write down the equations for each.



- 10. A function is defined as f(x) = 2x + 3. Find each value.
 - (a) f(4) =

(c) f(-3) =

(b) f(0) =

- (d) f(1) =
- (e) Find the value of x that makes f(x) = 0