10.3 Do Now: Linear equations, review

- 1. Write down the slope perpendicular to the given slope.
 - (a) $m = -\frac{3}{5}$ $m_{\perp} =$
- (c) m = 0.75 $m_{\perp} =$

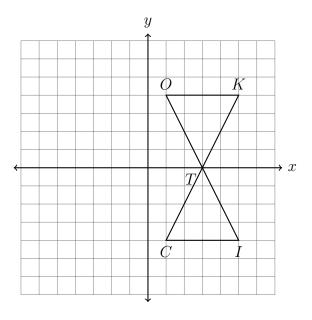
- (b) m = -2 $m_{\perp} =$
- (d) $m = \frac{1}{2}$ $m_{\perp} =$
- 2. Write down the center and radius of each circle.
 - (a) $(x+4)^2 + (y-3)^2 = 81$
- (c) $x^2 + 8x + y^2 6y = -16$
- (b) $x^2 + (y+1)^2 = 20$
- (d) $x^2 10x + y^2 16y = -40$

In the following problems, use the point-slope formula: $y - y_1 = m(x - x_1)$

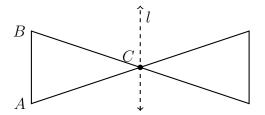
- 3. What is the equation of a line through (-1, -4) parallel to the line $y = \frac{3}{2}x + 1$?
- 4. What is the equation of a line through (3, -5) perpendicular to the line x 2y = 6?

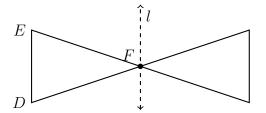
5. Spicy What is an equation of the perpendicular bisector of \overline{AB} with A(-2,5) and B(4,-1)?

6. Describe a rigid motion that maps $\triangle TIC$ onto $\triangle TOK$.



7. Mark the missing labels for a reflection across l of $\triangle ABC$ onto $\triangle A'B'C'$, and for a rotation of 180° counterclockwise around C of $\triangle DEF$ onto $\triangle D'E'F'$.





8. Find the coordinates of the image of the point G(6,1) after a rotation of 90° around the origin.