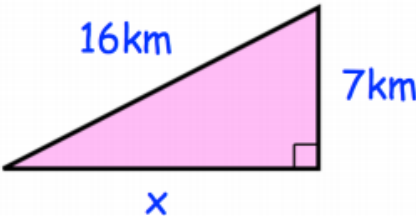
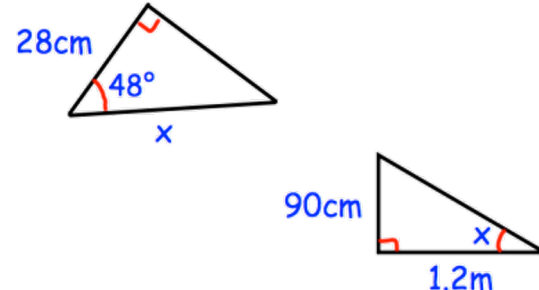
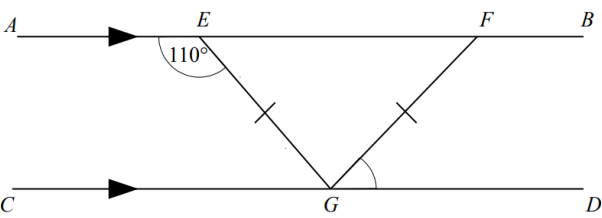


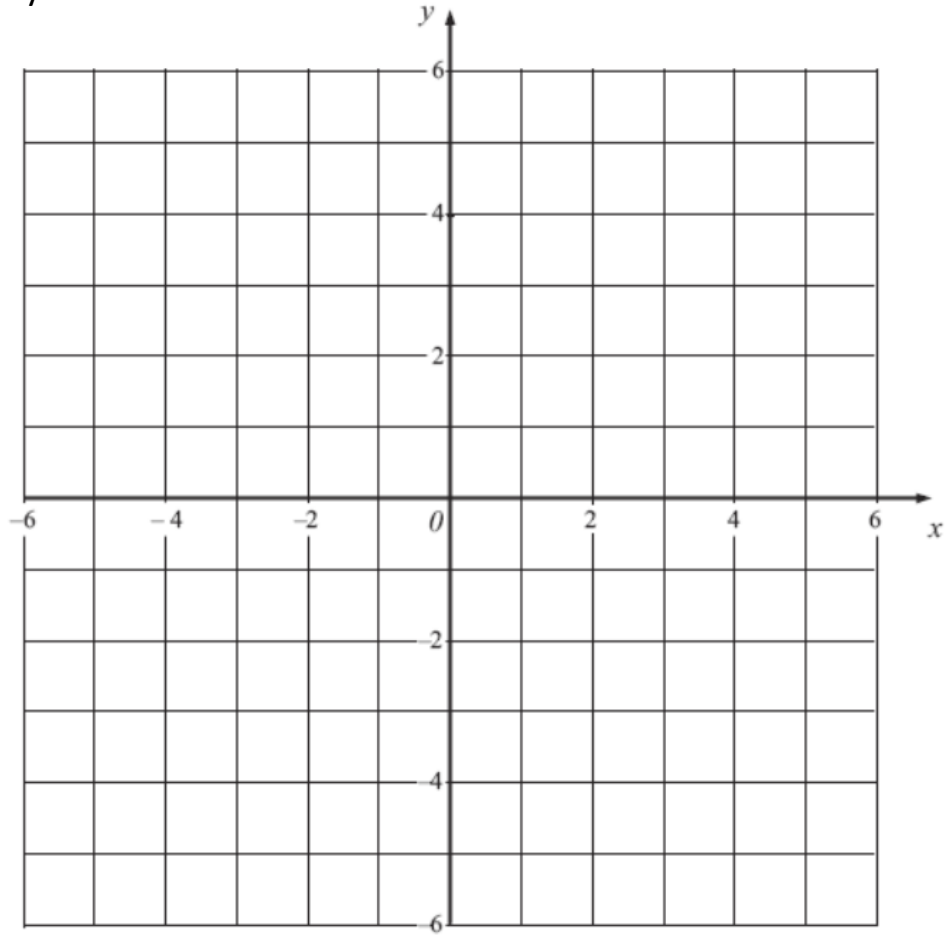
<p style="text-align: center;"><u>Term 3</u></p> <p>By the end of the term you should be able to complete this skills test</p>	<p>Find the midpoint of the line that passes through (8,-4) and (-1,6)</p>	<p>a. Write the equation of the line that has a gradient of 7 and passes through (-4,-1)</p> <p>b. Parallel to $x - 3y - 6 = 0$ and passing through (-9, -2)</p>	<p>Write the equation of the line that passes through (4,0) and (-3,1)</p>
<p>Write an equation of the line that is parallel to $3x - 4y - 9 = 0$</p>	<p>Write the equation of the line that is perpendicular to:</p> <p>a. $y = 4x + 2$</p> <p>b. $y = -\frac{1}{5}x + 1$</p>	<p>Does the point (2, 5) lie on the line $y = 3x - 1$?</p> <p>Does the point (-1, 8) lie on the line $y = 2x + 11$?</p>	<p>Draw the graph of $x^2 + 3x - 2$ between the value of $x = -5$ and $x = 5$.</p> <p>Use the graphs to estimate the roots of the equation.</p>
		<p>By drawing the graphs, solve the simultaneous equations:</p> $2x - 3y = 4$ $3x - 9y = -12$	<p>Draw the graphs of:</p> <p>a. $y = \frac{1}{x}$ Between the values of $x = 0$ and $x = 4$</p> <p>a. $x^3 + x - 2$ Between the values of $x = -2$ and $x = 2$</p>
	<p>What is the sum of the interior angles of an octagon?</p> <p>What is the size of each angle in a regular hexagon?</p>	<p>The size of each exterior angle in a regular polygon is 18°. Work out how many sides the polygon has.</p>	<p>Distance = 330 miles, Time = 6 hours. What is the speed?</p> <p>Speed = 65mph, Distance = 520 miles. What is the time?</p>

On the grid, shade the region that satisfies all three of these inequalities

$$y > -4$$

$$x < 2$$

$$y \leq 2x + 1$$



Emily drove to the beach. She stayed at the beach and then she drove back home. Here is Emily's travel graph.

- (a) For how many minutes did Emily stay at the beach?
- (b) What was Emily's average speed on her journey to the beach?

