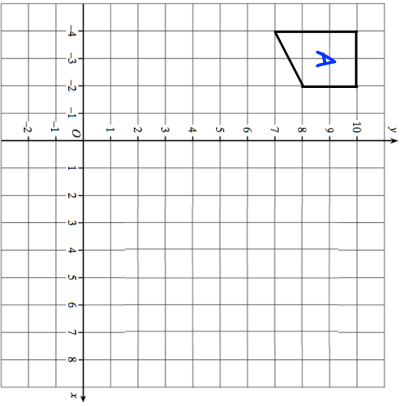
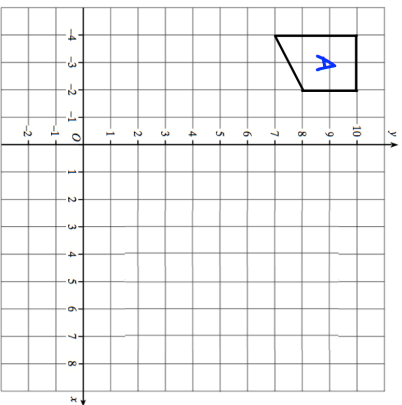


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<p>The time taken, <math>t</math>, for passengers to be checked-in for a flight is inversely proportional to the square of the number of staff, <math>s</math>, working.</p> <p>It takes 30 minutes passengers to be checked-in when 10 staff are working.</p> <p>Find an equation connecting <math>t</math> and <math>s</math>.</p> <p>Solve using the quadratic formula, to 1 decimal place.</p> $3x^2 + 11x + 9 = 0$	<p>Enlarge the triangle by scale factor <math>-2</math>, using centre of enlargement <math>(0, 6)</math></p>	
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