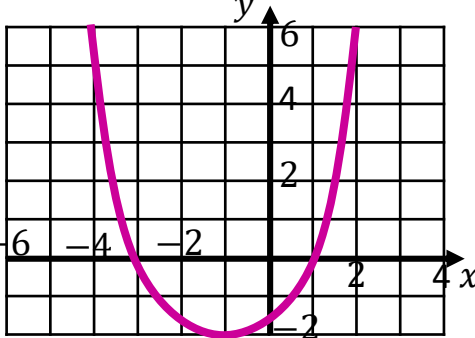




Timester Challenge

Factorising Quadratic Expressions



<p>Factorise</p> <p>1) $x^2 + 8x + 12$</p> <p>2) $x^2 - 11x + 18$</p> <p>Bronze ★</p>	<p>Factorise the following expressions fully.</p> <p>1) $x^2 - 25$</p> <p>2) $4x^2 - 9$</p> <p>Silver ★</p>	<p>Factorise $2x^2 + 13x + 21$</p> <p>Gold ★</p>
<p>Factorise</p> <p>1) $x^2 - 2x - 15$</p> <p>2) $x^2 + 3x - 28$</p> <p>Bronze ★</p>	<p>Circle the equation with the roots -3 and 5.</p> <p>Circle the correct answer</p> <p>$(x - 3)(x + 5) = 0$ $5x(x - 3) = 0$</p> <p>$x^2 - 15 = 0$ $(x + 3)(x - 5) = 0$</p> <p>Silver ★</p>	<p>Find the equation of the graph.</p>  <p>Gold ★</p>

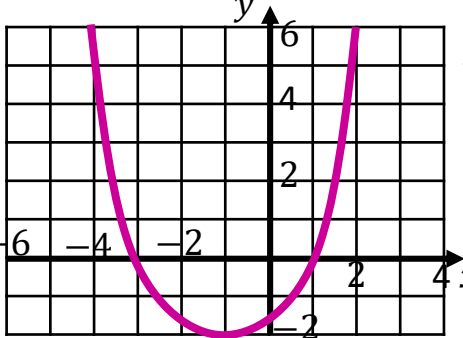


Timester Challenge

Factorising Quadratic Expressions

Answers



<p>Factorise</p> <p>1) $x^2 + 8x + 12$ $(x + 2)(x + 6)$</p> <p>2) $x^2 - 11x + 18$ $(x - 9)(x - 2)$</p> <p>Bronze ★</p>	<p>Factorise the following expressions fully.</p> <p>1) $x^2 - 25$ $(x + 5)(x - 5)$</p> <p>2) $4x^2 - 9$ $(2x + 3)(2x - 3)$</p> <p>Silver ★</p>	<p>Factorise $2x^2 + 13x + 21$ $(2x + 7)(x + 3)$</p> <p>Gold ★</p>
<p>Factorise</p> <p>1) $x^2 - 2x - 15$ $(x - 5)(x + 3)$</p> <p>2) $x^2 + 3x - 28$ $(x + 7)(x - 4)$</p> <p>Bronze ★</p>	<p>Circle the equation with the roots -3 and 5. Circle the correct answer</p> <p>$(x - 3)(x + 5) = 0$ $5x(x - 3) = 0$ $x^2 - 15 = 0$ $(x + 3)(x - 5) = 0$</p> <p>Silver ★</p>	<p>Find the equation of the graph. <i>Roots are</i> $x = -3$ and $x = 1$ <i>So</i> $(x + 3)(x - 1) = 0$ $x^2 + 2x - 3 = 0$ <i>Hence</i> $y = x^2 + 2x - 3$</p>  <p>Gold ★</p>