

Factor completely.

<p>1) $x^2 - 225$ $(x)^2 (15)^2$ $(x-15)(x+15)$</p> <p>DIFFERENCE OF TWO SQUARES</p>	<p>2) $18x^4 - 27x$ $9x(2x^3 - 3)$</p> <p>GCF</p>
<p>3) $x^2 - x - 6$ -6 PRODUCT -3 2 -1 SUM $(x-3)(x+2)$</p> <p>BASIC QUADRATIC TRINOMIAL $(a=1)$ $ax^2 + bx + c$</p>	<p>4) $2x^4 - 32$ $2(x^4 - 16)$ $(x^2)^2 (4)^2$ $2(x^2 - 4)(x^2 + 4)$ $2(x-2)(x+2)(x^2 + 4)$</p> <p>GCF DIFFERENCE OF TWO SQUARES</p>
<p>5) $x(2x-5) + 4(2x-5)$ $(x+4)(2x-5)$</p> <p>REGROUP</p>	<p>6) $x^2 + 10x + 25$ 25 PRODUCT 5 5 10 SUM $(x+5)(x+5)$ $(x+5)^2$</p> <p>PERFECT SQUARE TRINOMIAL (Also BASIC QUADRATIC TRINOMIAL)</p>
<p>7) $16x^2 - y^2$ $(4x)^2 (y)^2$ $(4x-y)(4x+y)$</p> <p>DIFFERENCE OF TWO SQUARES</p>	<p>8) $-x^2 - x + 30$ $-1(x^2 + x - 30)$ -30 PRODUCT 6 -5 1 SUM $-(x+6)(x-5)$</p> <p>GCF (ALWAYS DIVIDE -1 OUT FIRST) BASIC QUADRATIC TRINOMIAL</p>
<p>9) $2x^2 + 2x - 144$ $2(x^2 + x - 72)$ -72 PRODUCT 9 -8 1 SUM $2(x+9)(x-8)$</p> <p>GCF BASIC QUADRATIC TRINOMIAL</p>	<p>10) $3x^2 + 22x + 35$ 105 PRODUCT 7 15 22 SUM $3x^2 + 7x + 15x + 35$ $x(3x+7) + 5(3x+7)$ $(x+5)(3x+7)$</p> <p>MORE COMPLICATED QUADRATIC TRINOMIAL $(a \neq 1)$ $ax^2 + bx + c$</p>