

KEY

Proficiency Check – Section 1.1 – Factoring Basic Quadratics (Reverse FOIL)

Factor the following completely

<p>1. <math>x^2 - 5x - 104</math></p> <p><math>(x - 13)(x + 8)</math></p> <p>104 2 52 2 26 8 2 13</p>	<p>2. <math>x^2 + 23x + 112</math></p> <p><math>(x + 16)(x + 7)</math></p> <p>112 2 56 2 28 16 2 14 2 7</p>
<p>3. <math>5x^2 - 15x - 440</math></p> <p><math>5(x^2 - 3x - 88)</math></p> <p><math>5(x - 11)(x + 8)</math></p>	<p>4. <math>x^2(5a - 2) - 4x(5a - 2) - 21(5a - 2)</math></p> <p><math>(5a - 2)(x^2 - 4x - 21)</math></p> <p><math>(5a - 2)(x - 7)(x + 3)</math></p>