FACTORING PUZZLE

Cutout all the pieces. Then match the equivalent expressions. Show all work on a separate sheet of paper.

<table>
<thead>
<tr>
<th>Expression</th>
<th>(x+3)^2</th>
<th>(x-4)(x-6)</th>
<th>(5x-4)(5x+4)</th>
<th>(x+6)(6x+5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>x^2+6x+9</td>
<td>x^2-10x+24</td>
<td>25x^2-16</td>
<td>6x^2+41x+30</td>
<td></td>
</tr>
<tr>
<td>(x+3)^2</td>
<td>(x-4)(x-6)</td>
<td>(5x-4)(5x+4)</td>
<td>(x+6)(6x+5)</td>
<td></td>
</tr>
<tr>
<td>4x^2-25</td>
<td>x^2-9</td>
<td>16x^2-1</td>
<td>x^2-7x+12</td>
<td></td>
</tr>
<tr>
<td>(2x+5)(2x-5)</td>
<td>(x+3)(x-3)</td>
<td>(4x-1)(4x+1)</td>
<td>(x-4)(x-3)</td>
<td></td>
</tr>
<tr>
<td>9x^2+12x+4</td>
<td>(x+3)(x+6)</td>
<td>(x+2)(x+8)</td>
<td>(x+2)(x+6)</td>
<td></td>
</tr>
<tr>
<td>6x^2+14x+6</td>
<td>(x+3)^2</td>
<td>(x-4)^2</td>
<td>(x-4)^2</td>
<td></td>
</tr>
<tr>
<td>x^2+4x+3</td>
<td>7x^2-19x+10</td>
<td>9x^2-4</td>
<td>x^2-8x+16</td>
<td></td>
</tr>
<tr>
<td>(x+3)(x+1)</td>
<td>(7x-5)(x-2)</td>
<td>(3x-2)(3x+2)</td>
<td>(x-4)^2</td>
<td></td>
</tr>
<tr>
<td>25x^2+20x+25</td>
<td>(2x+5)^2</td>
<td>(3x-1)(x+4)</td>
<td>(x-4)</td>
<td></td>
</tr>
<tr>
<td>3x^2+2x-1</td>
<td>(3x-1)(x+4)</td>
<td>(x-4)</td>
<td>(x-4)^2</td>
<td></td>
</tr>
<tr>
<td>x^2-12</td>
<td>4x^2+12x+20</td>
<td>3x^2+12x+6</td>
<td>x^2-12</td>
<td></td>
</tr>
</tbody>
</table>
**FACTORING PUZZLE**

Cutout all the pieces. Then match the equivalent expressions. Show all work on a separate sheet of paper.

<table>
<thead>
<tr>
<th>(7x-5)(x-2)</th>
<th>(4x-1)(4x+1)</th>
<th>(x+3)²</th>
<th>(x+3)(x-1)</th>
<th>(x+5)(2x+3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2x+5)²</td>
<td>(x+5)(x-5)</td>
<td>9x²-4</td>
<td>4x²-25</td>
<td>x²+3x-18</td>
</tr>
<tr>
<td>3x+2x-1</td>
<td>4x²+5x-5</td>
<td></td>
<td></td>
<td>x²+3x-18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16x²-1</td>
<td></td>
<td>6x²+41x+30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(5x-4)(5x+4)</th>
<th>(3x-2)(3x+2)</th>
<th>x²-12</th>
<th>(4x+5)(4x-3)</th>
<th>(2x-5)(2x-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(x-2)(x+8)</td>
<td>(3x-1)(x+1)</td>
<td>x²-12</td>
<td>4x²+12x+4</td>
<td>2x²+4x+3</td>
</tr>
<tr>
<td></td>
<td>(x+3)(x+2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16x²-1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(x+1)(x+6)</th>
<th>(x-6)(x-4)</th>
<th>x²-16</th>
<th>(x-3)(x+4)</th>
<th>x²-16</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(x-3)(x-4)</td>
<td></td>
<td>(x+4)(x-3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(x-4)²</td>
<td></td>
<td>(x+3)(x+3)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(x+3)(x-3)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(x+6)(6x+5)</th>
<th>(x+3)(x-3)</th>
<th>x²-15</th>
<th>(x+4)(x-3)</th>
<th>(x+3)(x+1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3x+2)²</td>
<td>(x+2)(x-8)</td>
<td></td>
<td>(4x+5)(x-1)</td>
<td>4x²+20x+25</td>
</tr>
<tr>
<td></td>
<td>x²-7x+12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7x²-19x+10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>x²-8x+16</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MY FACTORING PUZZLE

_________________________
(name)