Solve the Quadratic Equations by Factoring

Worksheet # 3

1.) \(7x^2 = -252 + 84x\)

2.) \(x^2 + 3x = 28\)

3.) \(6x^2 = 120 + 6x\)

4.) \(x^2 = 6x\)

5.) \(2x^2 + 12x = 14\)

6.) \(x^2 + 14x = -49\)

7.) \(8x^2 = 112x - 392\)

8.) \(x^2 = -12 + 7x\)

9.) \(8x^2 = -32x + 40\)

10.) \(6x^2 + 66x = -180\)
### Solve the Quadratic Equations by Factoring

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solutions</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>(7x^2 = -252 + 84x)</td>
<td>{6}</td>
</tr>
<tr>
<td>2</td>
<td>(x^2 + 3x = 28)</td>
<td>{-7, 4}</td>
</tr>
<tr>
<td>3</td>
<td>(6x^2 = 120 + 6x)</td>
<td>{-4, 5}</td>
</tr>
<tr>
<td>4</td>
<td>(x^2 = 6x)</td>
<td>{6, 0}</td>
</tr>
<tr>
<td>5</td>
<td>(2x^2 + 12x = 14)</td>
<td>{-7, 1}</td>
</tr>
<tr>
<td>6</td>
<td>(x^2 + 14x = -49)</td>
<td>{-7}</td>
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<tr>
<td>7</td>
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<td>{1, -5}</td>
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<td>10</td>
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<td>{-5, -6}</td>
</tr>
</tbody>
</table>