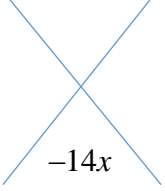
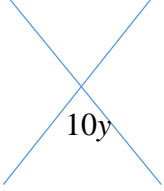


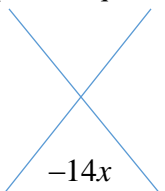
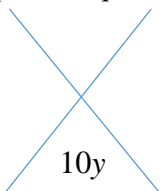
Geometry Spring Final R2 Opener

Name: \_\_\_\_\_

|  |  |
|--|--|
| <p>1) Fill in the blank and factor to make a perfect square.<br/> <math>x^2 - 14x + \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;">  </div>   | <p>2) Fill in the blank and factor to make a perfect square.<br/> <math>y^2 + 10y + \underline{\hspace{2cm}}</math></p> <div style="text-align: center; margin-top: 20px;">  </div> |
| <p>3) Rewrite the equation of the circle in standard form:<br/> <math>x^2 + y^2 - 14x + 10y + 38 = 0</math></p> <p><math>x^2 - 14x + \underline{\hspace{1cm}} + y^2 + 10y + \underline{\hspace{1cm}} = -38 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}</math></p> <div style="text-align: right; margin-top: 20px; border: 1px solid black; padding: 5px; width: fit-content;">                 Center: (      )<br/>                 Radius: _____             </div> |  |
| <p>4) <math>x^2 + y^2 + 6x - 2y - 6 = 0</math></p> <p><math>x^2 + 6x + \underline{\hspace{1cm}} + y^2 - 2y + \underline{\hspace{1cm}} = 6 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}}</math></p> <div style="text-align: right; margin-top: 20px; border: 1px solid black; padding: 5px; width: fit-content;">                 Center: (      )<br/>                 Radius: _____             </div>  |  |

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