Name: _____   Geometry
Date: Quiz 4

In 1-8, factor completely.

1. $6x + 27$ 2. $14x^3y^5 - 21x^5y^2$ 3. $a^2 - 10a + 25$

4. $m^2 - 49$ 5. $3d^2 - d - 10$ 6. $t^2 + 6t - 55$

7. $\dfrac{6xy - 2x^2}{x - 3y}$ 8. $\dfrac{8 - x}{x^2 + x - 72}$ 9. $8x^2 - 32$

In 10-15, solve for x.
REMINDER: Get everything into the form $ax^2 + bx + c = 0$

10. $x^2 - 71 = 10$ 11. $5x^2 = 3x - 2$ 12. $5d^2 = 125$

13. $3x^2 + 8 = 35$ 14. $x^2 + 14x = -40$ 15. $3x^2 + 8x + 5 = 0$

BONUS: Write an equation in the form $ax^2 + bx + c = 0$ if the solution of the equation is 4 and –2.