Difference of Two Squares Worksheet

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The formula for the difference of two cubes is: $a^2 - b^2 = (a+b)(a-b)$

Example:
$$x^2 - 25 = (x+5)(x-5)$$
 where **a** = x and **b** = 5

Example:
$$9m^2 - 16p^6 = (3m + 4p^3)(3m - 4p^3)$$

where $\mathbf{a} = 3m$ and $\mathbf{b} = 4p^3$

Practice Exercises:

- 1) Factor: $x^2 y^2$
- 2) Factor: $g^4 49$
- 3) Factor: $y^6 4$
- 4) Factor: $81d^2 64$
- 5) Factor: $36h^2 100b^8$
- 6) Fill in the missing parts: _____ $y^2 = (m + ____)(____ y)$
- 7) Fill in the missing parts: $16r^6 \underline{\hspace{1cm}} = (\underline{\hspace{1cm}} + \underline{\hspace{1cm}})(\underline{\hspace{1cm}} 3p)$
- 8) Fill in the missing parts: $4g^2 25m^8 = (\underline{} + \underline{})(2g \underline{})$
- 9) Fill in the missing parts: $_{--}=(d+4z)(d-4z)$
- 10) Fill in the missing parts: ____ = $(3r + 2k^2)($ _____)

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