

2.8 Assignment

Factor Special Products

Georgia
Performance
Standard(s)

MM1A2f

Goal • Factor special products.

p. 89



2. $25p^2 - 144$

$$(5p)^2 - (12)^2$$

$$(5p + 12)(5p - 12)$$

6. $-4r^2 + 100s^2$

What is the GCF between $-4r^2$ & $100s^2$?

$$-4 \quad -4(r^2 - 25s^2)$$

$$-4[r^2 - (5s)^2]$$

$$-4(r + 5s)(4 + 5s)$$



10. $16n^2 - 56n + 49$

$$(4n)^2 - 2[(4n)(7)] + 7^2$$

$$(4n - 7)^2$$

18. $64p^2 - 16p + 1 = 0$

$$(8p)^2 - 2[(8p)(1)] + 1^2$$

$$(8p - 1)^2$$



26. $\frac{25}{2}x^2 + 15x + \frac{9}{2} = 0$

$25x^2 + 30x + 9 = 0$

Multiply each side
by 2.

$(5x)^2 + 2(5x)(3) + 3^2 = 0$

$(5x + 3)^2 = 0$

$5x + 3 = 0$

$-3 = -3$

$5x$ = -3
5 5

$x = -\frac{3}{5}$



Quiz 2:1 – 7

THURSDAY

