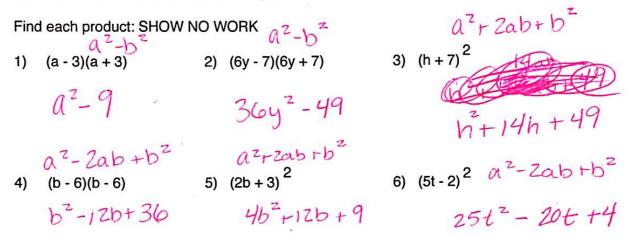
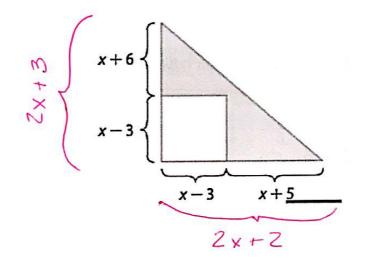
Remember the short cuts..... Refer to guided notes titled "Special Products"



Find the area of the shaded region:



$$\frac{1}{2(2_{x}+3)(2_{x}+2)} (1_{x}+1.5)(2_{x}+2)$$

 $2x^{2} + 5x + 3$ whole triangle

Square $a^2 - Zab + b^2$ $(x - 3)^2$ $x^{2} - 6x + 9$

 $(2x^{2}+5x+3)-(x^{2}-6x+9)$ $(x^{2}+1|x-6)$

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1212: 1.21 ghloghth 6 2 R . 3 Factor the following: Zj2K2: 2) $12jk^2 + 6j^2k + 2j^2k^2$ 1) $10g^2 h^2 + 9gh^2 - g^2 h$ GCF:ZJK $10g^{2}h^{2} - 5\cdot 2\cdot h h \cdot 9 \cdot 9$ $9gh^{2} \cdot 3 \cdot 3 \cdot 9 \cdot h \cdot 6cF = gh$ $g^{2}h - 1 \cdot 9 \cdot 9 \cdot h$ 2Jk(6k) + 2jk(3j) + 2jk(jk)Zjk(6k+31+jk) $gh(10gh) + gh(9h) + gh(\overline{9})$ 3) np + 2n + 8p +16 4) 9fg - 45f - 7g + 35 9F(q-5) - 7(q-5)n(p+z)+8(p+z)(n+s)(p+z)(9F - 7)(9 - 5)Solve each equation: 6) $20p^2 - 15p = 0$ 5) 3k(k + 10) = 05p(4p-3) 4p-3=0 K+10=0 31=0 (K=-10 5p=0 **CCSS** CRITIQUE Hernando and Rachel are solving $2m^2 = 4m$. Is either of them correct? Explain your reasoning. Rachel Hernando $2m^2 = 4m$ $2m^2 = 4m$ She got $\frac{2m^2}{m} = \frac{4m^2}{2m}$ $2m^2 - 4m = 0$ the equation 2m(m-2)=02m = 2to 2m = 0 or m - 2 = 0m = 1first which m = 0 or 2 is the correct

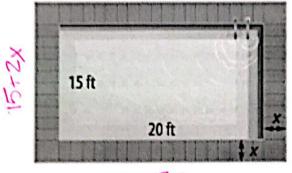
1st Step. Hernando Skipped That Step. Factor the following quadratic equations:

$$\frac{1}{2c} + \frac{1}{2c} + \frac{1}{2c}$$

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Find each product:

1) (4n+3)(n+9)2) (2a+9)(5a-6)3) $(2a-9)(3a^2+4a-4)$ 4 $a^2+36nr3nr27$ $10a^2-12ar^46a-54$ $6a^3+8a^2-8a-27a^2-36a+3$ $4n^2r39nr27$ $10a^2+33a-54$ $6a^3-19a^2-44ar36$



20+24

A contractor is building a deck around a rectangular swimming pool. The deck is x feet from every side of the pool. Write an expression for the total area of the pool and deck.

(15+2x)(20+2x)

300+30x +40x+4x2

4x2 + 70x + 300