review-2.notebook July 15, 2010

1)
$$(X + 2)x - 6 = 0$$

 $x+2=0$ or $x-6=0$
 $x=6$
2) $y^2+7b=0$ b=0 or $b+7=0$
 $b(b+7)=0$ b=-7
3) $3y^2+8y-35=0$
 $(3y-7)(y+5)=0$
 $3y-7=0$ or $y+5=0$
 $3y-7=0$ or $y+5=0$

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4)
$$(3b+2)^2 = (3b+2)(3b+2)$$

 $= 9b^2 + (6b+6b+4)$
 $= 9b^2 + (2b+4)$
 $= (3b)^2 + 2(6b) + (2)^2$
5) $(6x-5)(6x+5) = 36x^2 - 25$
6) $(3x+2y)(5x-5y) = 15x^2 - 15xy + 10xy - 10y^2$
 $= (5x^2 - 5xy - 10y^2)$
7) $M^2 + M - 42 = (M 6)(M 7)$
 $(M - 6)(M+7)$
 $+7M - 6M = 4M$

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8)
$$20y^{3}+42y^{2}-20y$$
 $2y(10y^{2}+21y-10)$
 $3y(2y+5)(5y-2)$
 $4(x^{2}-9y^{2})$
 4

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(1)
$$(9x+1) \cdot (2x^2-4x-6)$$
 $10x^3-20x^2-30x$
 $+2x^2-4x-6$
 $10x^3-18x^2-34x-6$
12) $\frac{6a^3}{5b^2} \cdot \frac{3a^5}{b^2} \Rightarrow \frac{18a^8}{5b^4}$
13) $\frac{x+2}{x^3-7x^2+12x}$ $\frac{x^3-7x^3+12x=0}{x(x^2-x+12)=0}$
 $\frac{x+2}{x^3-7x^2+12x}$ $\frac{x^3-7x^3+12x=0}{x(x^2-x+12)=0}$

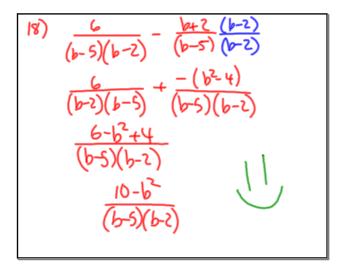
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 $\frac{(x-4)(x+9)}{(x-8)(x+6)} \cdot \frac{(x-8)(x+6)}{(x-8)(x+6)}$ $\frac{2x-1}{(x-8)(x+6)} + \frac{(x+6)}{(x-8)} \cdot \frac{(x+6)}{(x+6)}$ $\frac{2x-1+x^2+(x+2x+12)}{(x-8)(x+6)} \Rightarrow \frac{x^2+10x+11}{(x-8)(x+6)}$

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