Note Title

$$4(p+2)+m(p+2)$$
 $let p+2=x$ 
 $then 4x+mx$ 
 $x(4+m)$ 

result (p+a) (4+m)

$$53. (2m+n)^2 - (2m-n)^2$$

let 
$$x=(am+n)$$
  
 $y=(am-1)$   
 $(x+y)(x-y)$   
 $(am+n+am-n)(am+n-am+n)$ 

4m (2n) = 8 mn

FTA:

6.5: Solving  

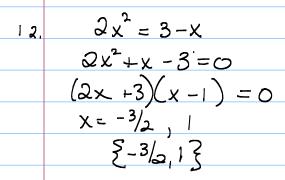
$$ax^2 + bx + c = 0$$
  
8.  $x^2 + x - 12 = 0$   
 $(x+4)(x-3) = 0$ 

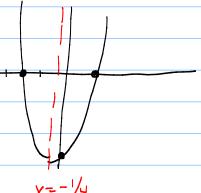
$$\{-4,3\}$$
axis:  $X = \frac{-4+3}{5} = -\frac{1}{5}$  ox  $= \frac{-1}{500}$ 

## Solving Trigonometric Equations by Factoring

Note Title Verifying Trigonometric Equations (with identities, 3 col format)

4/28/2016





 $X = -b/aa \quad Or \quad \frac{501 + 501_2}{2}$ 

$$\int a < 0 \quad RHB \quad \exists$$

$$-m^2 - 8m = 16$$

$$-m^2 - 8m - 16 = 0$$

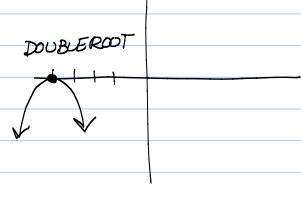
$$-1 \left(m^2 + 8m + 16\right) = 0$$

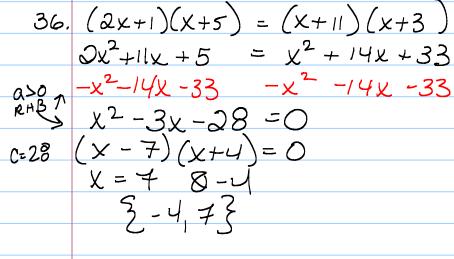
$$-1 \left(m + 4\right) \left(m + 4\right) = 0$$

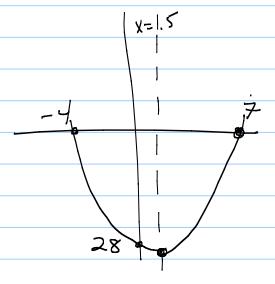
$$-1 \left(m + 4\right)^2 = 0$$

$$m = -4$$

$$\frac{3}{2} - 4\frac{3}{3}$$







## FTA => 3 sd.

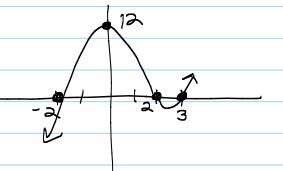
39. 
$$x^3 - 2x^2 = 3x$$
  
 $x^3 - 2x^2 - 3x^2 = 0$   
 $x(x^2 - 2x - 3) = 0$ 

$$\times (X-3)(X+1) = 0$$

$$46, x^3 - 3x^2 - 4x + 12 = 0$$

$$x^{2}(x-3) - 4(x-3) = 0$$

$$(x-3)(x^2-4)=0$$
  
 $(x-3)(x-2)(x+2)=0$   
 $\{-2,2,3\}$ 



$$A = \frac{1}{5}b \cdot h$$

$$44 = \frac{1}{3}(h-3)(h)$$

$$88 = h^{2}-3h$$

$$0 = h^{2}-3h-88$$

$$0 = (h-11)(h+8)$$

$$\frac{2}{5}-8, 11\frac{3}{5}$$

$$h(t) = gt^2 - vt + s$$

$$h(t) = -16t^{2} + 576$$

$$0 = -16(t^{2} - 36)$$

$$0 = -16(t - 6)(t + 6)$$

Rock height over