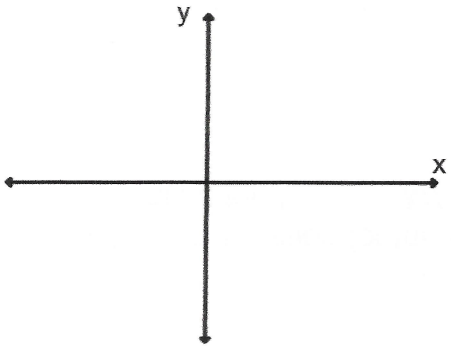
Bellwork Alg 2 Thursday, March 26, 2020

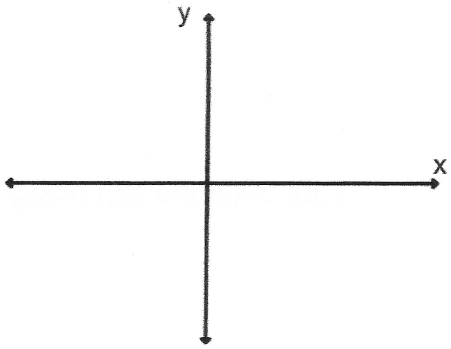
1. Solve. $\log_3(x-2)^2 = 2$

2. State the Reference Angle, in degrees, for each angle in Standard Position.

a) $\theta = 250°$



a) $\theta = -200°$



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ANSWERS

1. Solve. $\log_3(x-2)^2 = 2$

$3^2 = (x-2)^2$

$9 = x^2 - 4x + 4$

$-9 \qquad -9$

$0 = x^2 - 4x - 5$

$0 = (x-5)(x+1)$

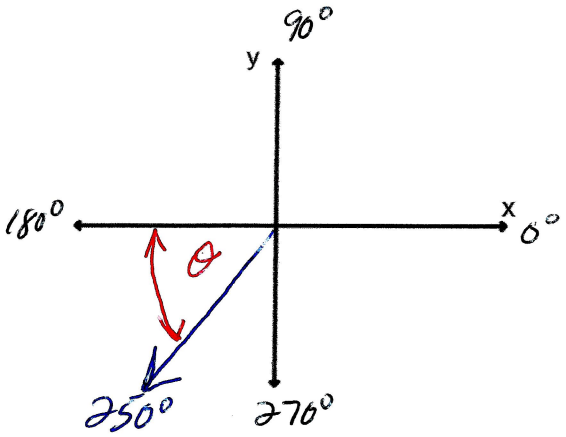
$-5 \cdot +1 = -5$, $-5 + 1 = -4$

$x = -1, 5$

BOTH ARE SOLUTIONS

2. State the Reference Angle, in degrees, for each angle in Standard Position.

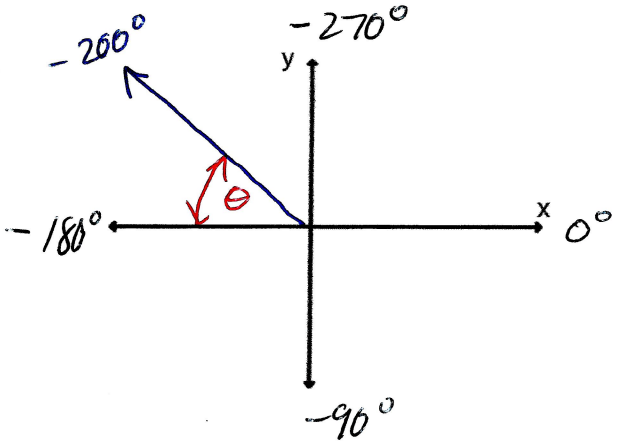
a) $\theta = 250°$



REF $\angle\theta = 250° - 180°$

REF $\angle\theta = 70°$

a) $\theta = -200°$



Ref $\angle\theta = -180° + -200°$

Ref $\angle\theta = 20°$