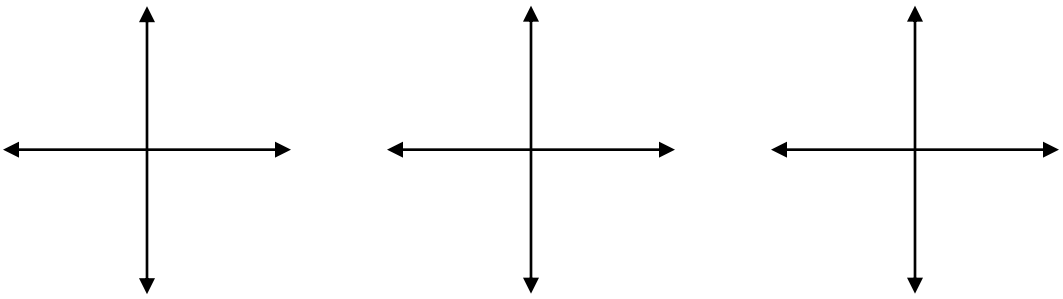
Pre-Calc. 11 LG 3A QUIZ (Formative Assessment)

Marking Teacher: _____ **Name:** _____

Student #: _____

1. Draw each angle in standard position, state the reference angle, and determine the quadrant the terminal arm lies in.

a) 125^o b) 300^o c) 245^o



Ref. ∠ _____ Ref. ∠ _____ Ref. ∠ _____
Quad. _____ Quad. _____ Quad. _____

2. For the reference angle 65^o, determine three other angles in standard position, $0^o<\theta<360^o$.

3. Give the exact values for each.

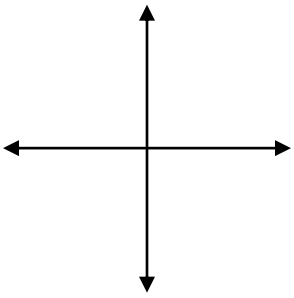
a) Cos 30^o b) Tan 45^o

4. A 6-m ramp is used for bike jumping. Determine the exact height of the jump if the angle of the ramp is 60^0.

5. Express the direction S40°E in standard position.

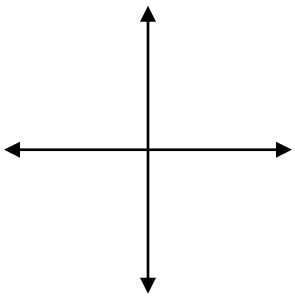
6. Draw an angle in standard position so that the terminal arm passes through each point. Then write the exact trigonometric ratios for Sin θ, Cos θ, and Tan θ.

a) (6, -8)



Sin θ _____
Cos θ _____
Tan θ _____

b) (-5, 12)



Sin θ _____
Cos θ _____
Tan θ _____

7. For the description Sin θ < 0 and Tan θ > 0, in which quadrant does the terminal arm of angle θ lie?

8. Sin 90^o = _____ Cos 180^o = _____ Tan 270^o = _____

The point P (*k*, 16) is 20 units from the origin. If P lies on the terminal arm of an angle, θ, in standard position, $0^o<\theta<360^o$, determine the following.

9. The measure of θ.

10. Determine the sine, cosine, and tangent ratio for θ.

Directions: ☐ **See me about this** ☐ **Move on to next guide** ☐ **Review and redo**

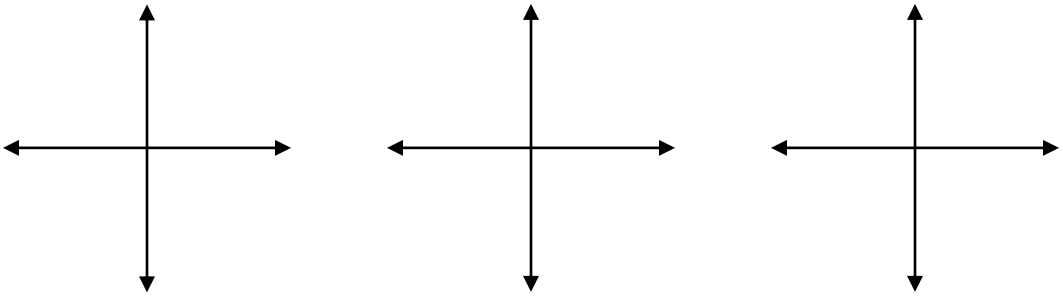
Pre-Calc. 11 LG 3B QUIZ (Formative Assessment)

Marking Teacher: _____ **Name:** _____

Student #: _____

2. Draw each angle in standard position, state the reference angle, and determine the quadrant the terminal arm lies in.

a) 85^o b) 330^o c) 215^o



Ref. ∠ _____ Ref. ∠ _____ Ref. ∠ _____
Quad. _____ Quad. _____ Quad. _____

2. For the reference angle 25^o, determine three other angles in standard position, $0^o<\theta<360^o$.

3. Give the exact values for each.

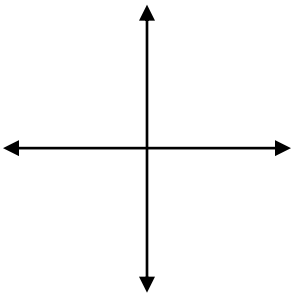
a) Cos 60^o b) Sin 45^o

4. A 8-m ramp is used for bike jumping. Determine the exact height of the jump if the angle of the ramp is 30^0.

5. Express the direction $N50^oE$ in standard position.

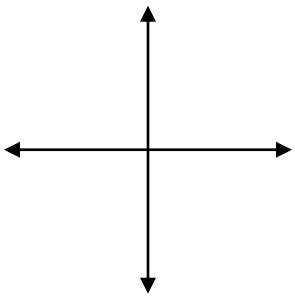
7. Draw an angle in standard position so that the terminal arm passes through each point. Then write the exact trigonometric ratios for Sin θ, Cos θ, and Tan θ.

a) (-12, -16)



Sin θ _____
Cos θ _____
Tan θ _____

b) (-1, 1)



Sin θ _____
Cos θ _____
Tan θ _____

7. For the description Sin θ > 0 and Cos θ > 0, in which quadrant does the terminal arm of angle θ lie?

8. Sin 0^o = _____ Cos 90^o = _____ Tan 180^o = _____

The point P (8, *k*) is 12 units from the origin. If P lies on the terminal arm of an angle, θ, in standard position, $0^o<\theta<360^o$, determine the following.

11. The measure of θ.

12. Determine the sine, cosine, and tangent ratio for θ.

Directions: ☐ **See me about this** ☐ **Move on to next guide** ☐ **Review and redo**