## **Prep for Final Exam**

## **Grading at WCC**

## Format of Final Exam

## Computing your Final Grade

where:

CA represents Class Average FE represents Final Exam FG represent Final Grade

This means that your Final Exam contributes a significant portion of your Final Grade. This is a chance to improve your grade.

Have CA = 84. Want B+

What grade needed on FE?

Have CA = 84. Want B+

What grade needed on FE?

$$\frac{3}{3}(A + \frac{1}{3}FE = FG)$$

$$2(A + FE = 3FG)$$

$$FE = 3FG - 2(A)$$

$$= 3(85) - 2(14)$$

$$= 255 - 18$$

$$= 87$$
need at least 87

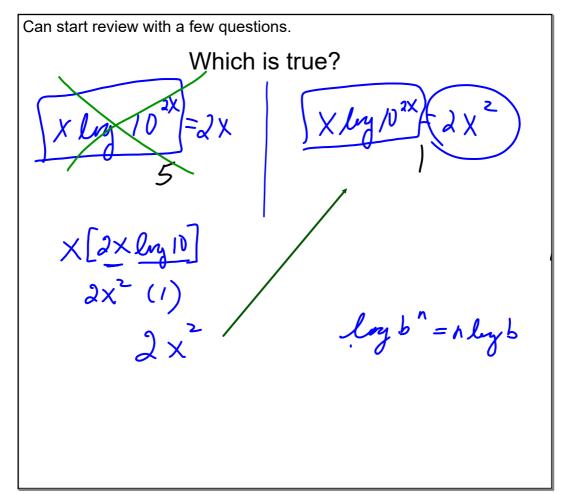
Some of the sections studied this semester have been quizzed but not tested. You should focus your review on these sections.

- 2.8 3.1 (1.5)
- 4.1 4.2 4.3 4.4 4.5
- 5.1 5.2 5.3 5.5

Can start review with a few questions.

Which is true?

Xly/v2x=2X2



Can start review with a few questions.

$$ln(8x^3)=3ln(2x)$$
  $ln(8x^3)=3ln(8x)$ 

Can start review with a few questions.

Which is true?

 $\ln(8x^3)=3\ln(2x)$   $\ln(2x^3)$   $\ln(2x)$   $\ln(2x)$ 

ln (8x) = 8(n (8x)

Can start review with a few questions.

Which is true?

ln x + ln(2x) = ln (3x)

ln x +ln(2x) = ln(2x)

Can start review with a few questions.

Which is true?  $ln \times +ln(3 \times) = ln(3 \times)$   $ln (x \cdot dx)$   $ln (2x^2)$ 

Can start review with a few questions.

$$\log\left(\frac{x^2y}{z^2}\right) = 2\log x + \log y - 2\log t \qquad \log\left(\frac{x^2y}{z^2}\right) = \frac{\log\left(x^2y\right)}{\log\left(z^2\right)}$$

Can start review with a few questions.

Which is true?

 $\log\left(\frac{\chi^2 y}{z^2}\right) = 2 \log x + \log y - 2 \log z$ 

ly (z) ly (z²)

leg (x²y) - leg t²

leg (x²y) - leg t² = 2 leg x +leg y - 2/y 2

leg x²+leg y - leg z² = 2 leg x +leg y - 2/y 2

Evaluate: log<sub>32</sub>8

Let  $log_{32}8 = x$  and convert to exponential form

$$\log_{32}8 = x$$

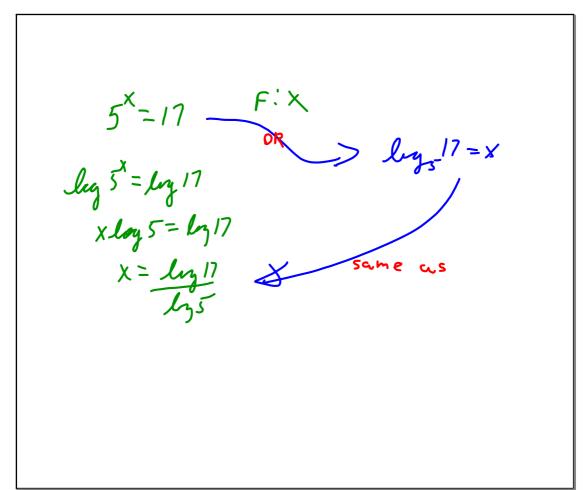
$$32^{x} = 8$$

$$(2^5)^x = 2^3$$

$$2^{5x} = 2^3$$

$$5x = 3$$

$$x = 3/5$$



$$y_3 = 4$$

$$3^4 = x$$

$$3^{4} = X$$

$$(3^{2})^{2}$$

$$y^{2}$$

$$x = X$$

$$ln \sqrt{\chi+3} = 1$$
 F: X

$$\ln |x+3| = 1$$

$$\ln (x+3)^{2} = 1$$

$$\ln (x+3) = 1$$

$$\ln (x+3) = 1$$

$$\ln (x+3) = 2$$

$$\ln (x+3)$$

6: 
$$5^{(2-x)} = \frac{1}{125}$$
 F: x

.

G: 
$$5^{2-x} = \frac{1}{125}$$
 F: Solute x.

 $5^{2-x} = \frac{1}{5^3} = 5^{-3}$ 
 $\frac{2^{-x} = -3}{5 = x}$ 

$$9x = \frac{1}{\sqrt[3]{3}} = \frac{1}{3\sqrt{3}} = 3^{1/3}$$

$$9^{X} = \frac{1}{\sqrt[3]{3}} = \frac{1}{\sqrt[3]{3}} = \frac{1}{\sqrt[3]{3}}$$

$$3^{2X} = 3^{-\frac{1}{3}}$$

$$2X = -\frac{1}{3}$$

$$X = -\frac{1}{6}$$

.

$$2 \log x - \log 7 = \log 1/2$$

$$\log \frac{x^2}{7} = \log 1/2$$

$$\log \frac{x^2}{7} = \log 112$$

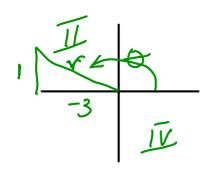
$$\frac{x^2}{7} = 112$$

$$x^2 = 184$$

only x = +28 is in the domain

G: 
$$tanb = -\frac{1}{3}$$
,  $sin \theta > 0$  F:  $cos \theta$ 

G: 
$$tanb = -\frac{1}{3}$$
,  $sin \theta > 0$  F:  $cos \theta$ 



$$Y^{2} = X^{2} + y^{2}$$

$$= (-3)^{2} + 1^{2}$$

$$= 9 + 1 = 10$$

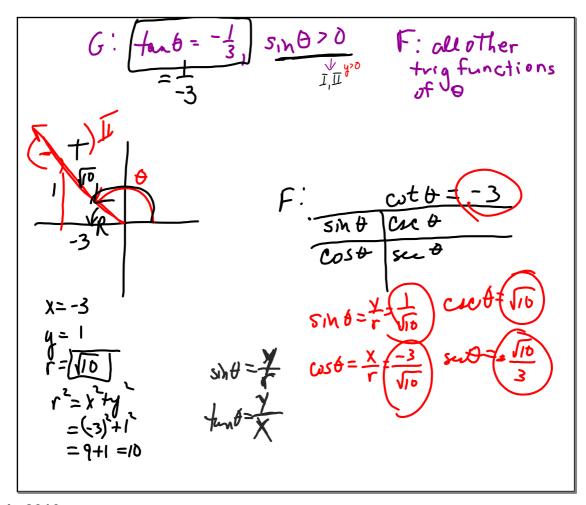
$$\therefore \Gamma = \sqrt{10}$$

$$tan \theta = -\frac{1}{3} = \frac{y}{x}$$

negative tanθ means x and y have different signs > QII or QIV

 $\sin\theta > 0$  when y>0 : QII

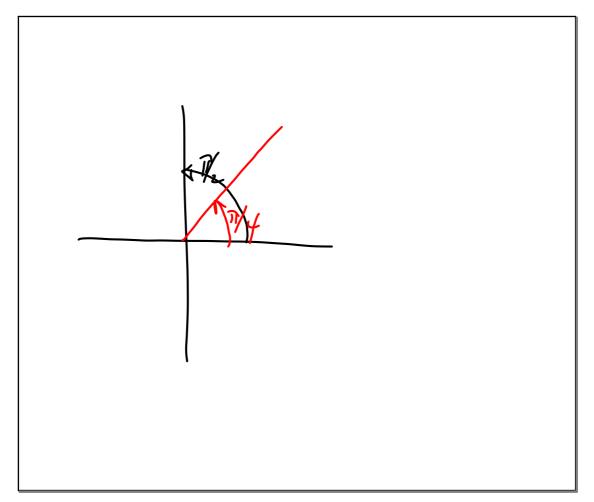
so y = +1, x = -3 Find r

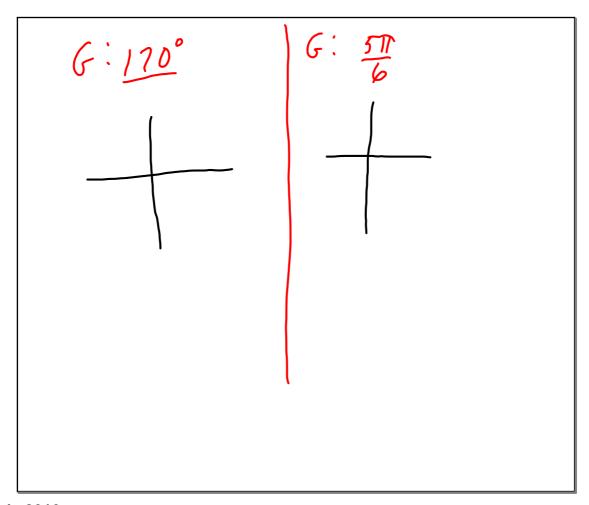


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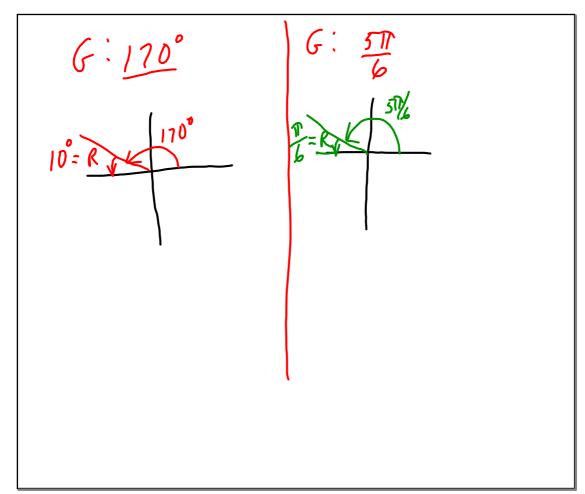
$$G: -\frac{11}{4} \quad F: R \neq \frac{7}{9} = \frac{1}{12}$$

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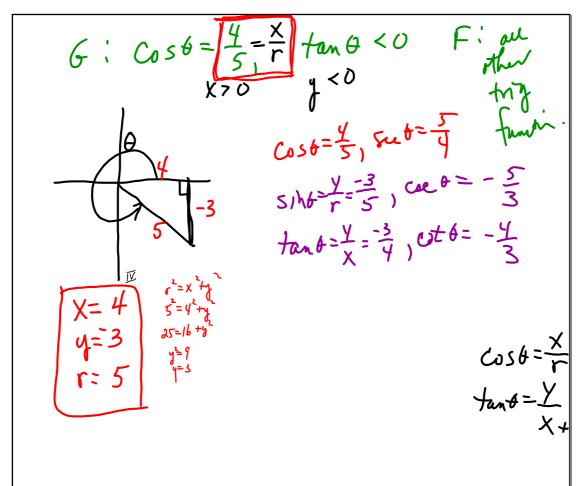




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$$G: Cosb = \frac{4}{5}$$
,  $tan \theta < 0$   $F: all the trial functions.$ 



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