

## EXAM REVIEW SHEET #1

1. Expand and simplify.

a)  $4(x - y)^2 - (2x + 3y)(x - 4y)$

b)  $(3x^2 + 5) - 2(x - 1)^2$

c)  $(2a - 5b)^2 - (3a - 2b)(a + 1)$

2. Simplify.

a)  $\frac{x^2 - 4}{2x^2 + 5x + 2} \times \frac{2x^2 + 7x + 3}{x^2 + 2x - 3}$

b)  $\frac{a^2 + 5a - 14}{a^2 + 8a + 7} \div \frac{a^2 - 4a + 4}{3a^2 - 6a}$

c)  $\frac{9x}{x^2 - 9} \div \frac{3x}{x + 3}$

d)  $\frac{x^2 - 6x + 8}{x^2 - 2x - 8} \div \frac{x^2 - 2x}{x^2 - 4}$

e)  $\frac{x + 9}{x^2 + 2x - 48} \div \frac{x - 9}{x^2 - x - 30}$

f)  $\frac{x + 5}{x - 3} \div \frac{x - 7}{x + 2}$

3. Evaluate.

a)  $2(-10)^0 \times 8^{\frac{2}{3}}$

b)  $27^{\frac{2}{3}}$

c)  $\left(\frac{3}{5}\right)^{-3}$

d)  $\left(\frac{4}{9}\right)^{\frac{1}{2}}$

e)  $4^{\frac{1}{2}} \times 8^2 \times 2^{-3}$

f)  $64^{\frac{1}{3}} + 25^{\frac{1}{2}}$

g)  $4^{\frac{2}{3}} + 9^{\frac{1}{2}}$

h)  $(7^3)^{-1} \times 7^2 \times \frac{1}{7^2}$

i)  $\left(32^{\frac{1}{5}}\right)\left(27^{\frac{2}{3}}\right)$

4. Simplify.

a)  $3x^{-4}y^2 \times 2x^2y^{-3}$

b)  $(5a^3)^2(2a^4)^3$

c)  $\frac{(3x^3y^2)^2}{(-x^4y)^2} \times \frac{(-2x^4y^2)}{(6x^4y^3)}$

d)  $\frac{(8^7)(4^7)}{(32)^7}$

e)  $\frac{(x^{m+1})^2(x^{n-1})^2}{(x^n)^2}$

f)  $\frac{(25^4)(125^2)}{(5^{20})}$

5. Solve for x.

a)  $3^{x-2} = 27$

b)  $3^{2x-5} + 1 = 244$

c)  $5(3^x) = 45$

d)  $5(2^{3x+1}) = 40$

e)  $2(5^{2x-1}) = 250$

f)  $6(36^x) = 1$

6. For each the following points on the terminal arm of angle  $\theta$  in standard position find the exact values of  $\sin\theta$ ,  $\cos\theta$ , and  $\tan\theta$ .

a)  $P(6, 5)$

b)  $P(-1, 8)$

c)  $P(-2, -5)$

7. Find the maximum or minimum value of the function and the value of x when it occurs.

a)  $y = x^2 - 8x + 3$

b)  $y = 3x^2 + 12x + 1$

c)  $y = -2x^2 + 7x$

8. Find the inverse.

a)  $f(x) = \frac{3x+1}{2}$

b)  $f(x) = x^2 + 5$

c)  $f(x) = (x - 4)^2 - 15$

# Study Guide Advanced Functions

**Michael Gregg, Billy Haines**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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