Trig

Review Ch. 4

Quiz 4.7-4.8 today

Test Ch. 4 is Mon.



Determine whether each number is a root of $a^3 - 3a^2 - 3a - 4 = 0$. Explain.

11. 0 **12**. 4

2. 4 **13**. -2

Is r=0?

Find the discriminant of each equation and describe the nature of the roots of the equation. Then solve the equation by using the Quadratic Formula.

16.
$$2x^2 - 7x - 4 = 0$$

Use the Remainder Theorem to find the remainder for each division. State whether the binomial is a factor of the polynomial.

If r=0

22.
$$(x^3 - x^2 - 10x - 8) \div (x + 2)$$

List the possible rational roots of each equation. Then determine the rational roots.

26.
$$x^3 - 2x^2 - x + 2 = 0$$

Find the number of possible positive real zeros and the number of possible negative real zeros for each function. Then determine the rational zeros.

34.
$$f(x) = x^3 - x^2 - 34x - 56$$

graphing calc>>table

Determine between which consecutive integers the real zeros of each function are located.

37.
$$g(x) = 3x^3 + 1$$

Solve each equation or inequality. 44. $n - \frac{6}{n} + 5 = 0$

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48.
$$\frac{2}{x+1} < 1 - \frac{1}{x-1}$$