

UTP Math Recommendation Form

Student Name										
Gender	<u> </u>	1ale	Female							
Applying for Grade	9	10	11	12						

Instructions:

For each problem, please CIRCLE the term that best describes your student's ability:

- **EASY** Student is strong in this type of math subject, Does not needs instruction in this area.
- **CHALLENGING** Student is learning this type of math presently, and has general ability. Some instruction needed in this area
- **DIFFICULT** Student is beginning to learn this subject, but still needs practice and instruction
- **NOT LEARNED YET** Student is weak in this type of math OR Student has not learned this math. Student needs thorough training and instruction in this area.

Please give your **honest** feedback. This form will be used to place your student in an appropriate math course. Exaggerating or misrepresenting the student's ability will only hurt their academics in their new school. By giving an accurate description of your student's ability, they can succeed in the correct math course. Thank you!

Solve the following system of equations:

$$x + 2y = 5$$

$$2x + y = 4$$

What is the solution to 2h + 8 > 3h - 6?

1)
$$h < 14$$

3)
$$h > 14$$

2)
$$h < \frac{14}{5}$$

4)
$$h > \frac{14}{5}$$

If $f(n) = (n-1)^2 + 3n$, which statement is true?

$$1) f(3) = -2$$

$$3) f(3) = -2$$

$$1) f(3) = -2$$

$$4) f(3) = -2$$

The function $f(x) = 3x^2 + 12x + 11$ can be written as:

1)
$$f(x) = (3x+6)^2 - 25$$

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$$f(x) = (3x+6)^2 - 25$$
 3) $f(x) = 3(x+6)^2 - 25$

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

2)
$$f(x) = 3(x+2)^2 - 1$$
 4) $f(x) = 3(x+2)^2 + 7$

For my student, this problem is:



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Determine the value of $\sum_{x=4}^{8} i^x$ in simplest a + bi form.

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Which expression has a value of $\frac{\sqrt{3}}{3}$?

- 1) cot 60°
- 3) csc 30°
- 2) tan 60°
- 4) sec 30°

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Solve the following system of equations:

$$-x-8y+3z=65$$

$$4x - 4y - 6z = 58$$

$$6x + 8y - 3z = -45$$

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Find the domain of the function $f(x) = \sqrt{x+1}$

- 1) $x \ge -1$
- 3) $x \le 2$
- 2) $x \ge 1$
- 4) $x \le -1$

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The solution to the equation $x^2 - 8x + 32 = 0$ is:

- 1) $3 \pm 3i$
- $3) 2 \pm 4i$
- 2) $1 \pm 2i$
- $4) 4 \pm 4i$

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What is the equation of a circle with the following: Center = (5,-2) Radius = 3

1)
$$(x-5)^2 + (y+2)^2 = 3$$
 3) $(x-5)^2 + (y+2)^2 = 9$

2)
$$(x+5)^2 + (y-2)^2 = 3$$
 4) $(x+5)^2 + (y-2)^2 = 9$

Which regular polygon has a minimum rotation of 45°?

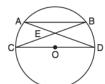
- 1) octagon
- 3) decagon
- 2) hexagon
- 4) pentagon

The lines who equations are 2x + 3y = 4 and y = mx + 6 are perpendicular when m is:

- 1) $\frac{-3}{2}$
- 3) $\frac{3}{2}$
- 2) $\frac{-2}{3}$
- 4) $\frac{2}{3}$

A gallon of paint will cover approximately 450 square feet. An artist wants to paint all the outside surfaces of a cube measuring 12 feet on each edge. What is the least number of gallons of paint he must buy to paint the cube?

In circle O shown below, \overline{AB} P \overline{CD} .



Which statement is *false*?

1)
$${}^{\mathbf{a}}_{A}C \cong {}^{\mathbf{a}}_{B}D$$

- 3) VABE : VCDE
- 2) BE = CE
- $4) \ \angle B \cong \angle C$

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Which function has a vertical asymptote of x = 2

 $1) \ \frac{3x-6}{x}$

3)
$$\frac{x-2}{x^2-8}$$

2) $\frac{x^2-4}{x-2}$

$$4) \ \frac{x}{x-2}$$

Determine the derivative of $y = (x-4)(x^2+5)$

Determine the limit, if it exists, for:

$$\lim_{x\to 9} \frac{\sqrt{x}-3}{9-x}$$

Write an equation of degree 3 for a polynomial f(x) with two give zeros of: 2+i, and 6

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Teacher Name

Teacher's Signature

Teacher Contact Info (email)

Date