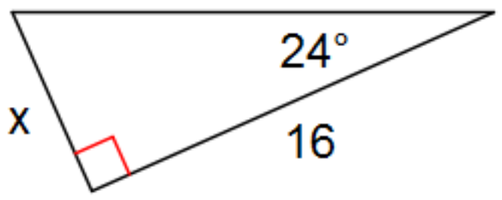
$$\left(\frac{4n^2 \cdot 3n^2}{4n^4}\right)^4$$

$$= \left(\frac{12n^4}{4n^4}\right)^4$$

$$= (3)^4 = 81$$

Solve the triangles. All sides and all angles. Round to the nearest tenth.

1)



y

x

z

$\angle x = 24^\circ \quad x = 7.1$

$\angle y = 66^\circ \quad y = 16$

$\angle z = 90^\circ \quad z =$

$180 - (90 + 24)$

$= 180 - (114)$

$= 66^\circ$

$\tan x = \frac{O}{A}$

$\frac{\tan 24^\circ}{1} = \frac{x}{16}$

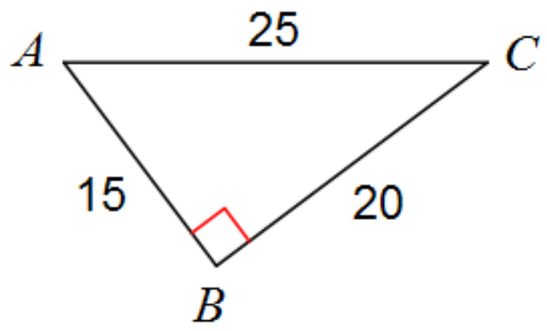
$16 \tan 24^\circ = x$

$x = 7.1$

Find the value of each trigonometric ratio to the nearest ten-thousandth.

SOHCAHTOA

25) cos C



A) 0.6000 B) 0.8000

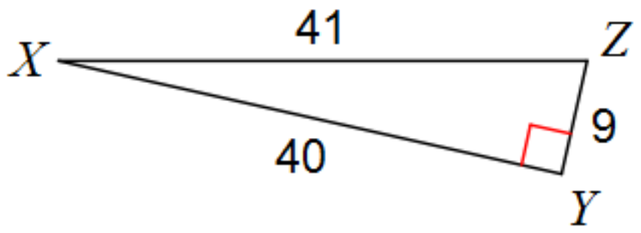
C) 1.3333 D) 1.2500

$\cos C = \frac{a}{h}$

$\cos C = \frac{20}{25}$

Find the value of each trigonometric ratio to the nearest ten-thousandth.

17) $\sin X =$ $\frac{O}{H}$



$\sin X = \frac{9}{41}$

Math 11C

Name_____

Factoring Review

Factor each completely.

1) $p^2 + 8p + 16$

2) $4m^2 + 12m + 9$

3) $4x^2 - 9$

4) $x^2 - 16$

5) $16n^2 - 9$

6) $p^2 - 4$

7) $50x^2 - 80x + 32$

8) $n^2 + 10n + 25$

9) $8r^2 + 40r + 50$

10) $4b^2 + 20b + 25$

11) $10m^2 - 39m + 27$

12) $4k^2 - 21k - 18$

13) $9b^2 + 17b + 8$

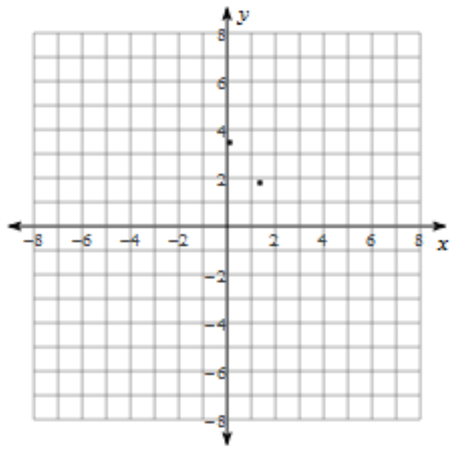
14) $9x^2 + 41x + 20$

Math 11C Exam Review Name_____

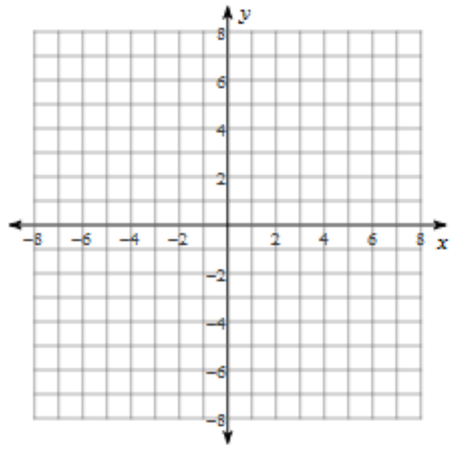
Finding Vertex & Graphing Parabola

Identify the vertex, axis of symmetry, min/max value, and y-intercept of each., zeros (if any) Then sketch the graph.

1) $y = -(x-4)^2 + 4$

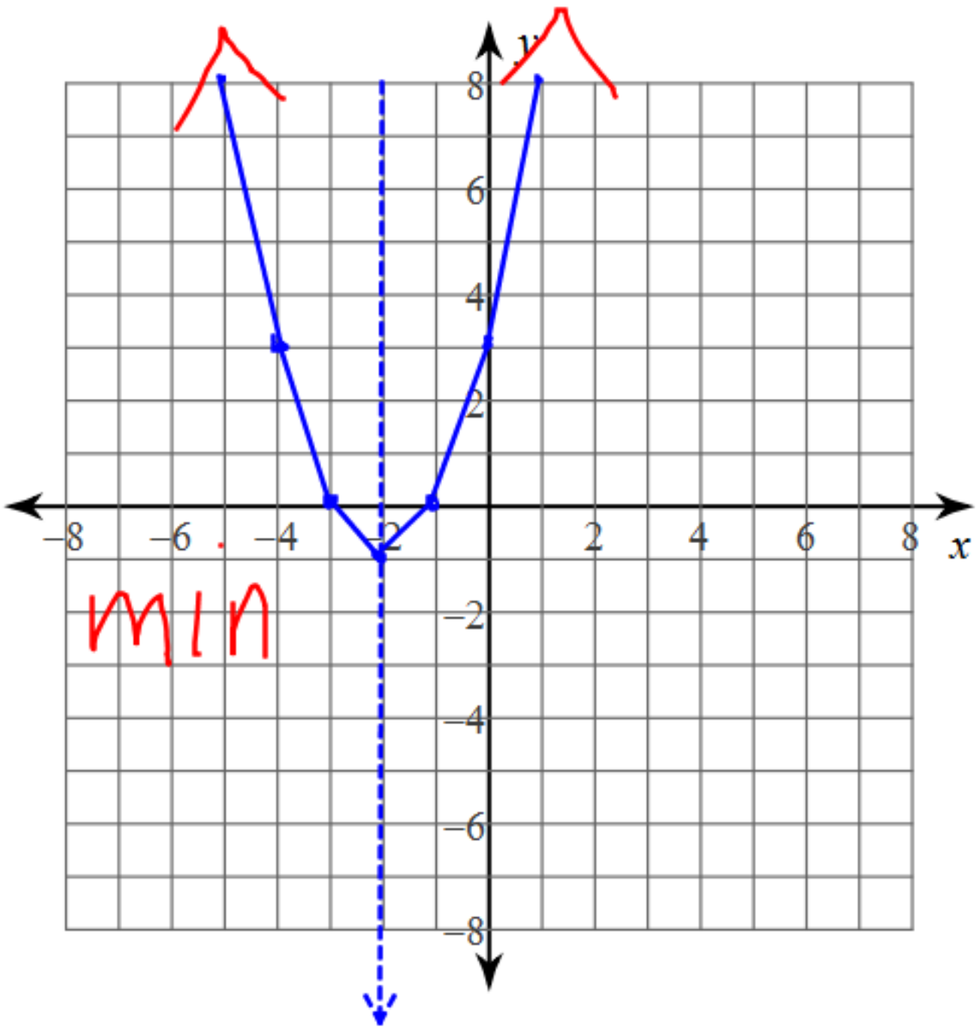


2) $y = x^2 + 4x + 3$



Identify the vertex, axis of symmetry, min/max value, and y-intercept of each., zeros (if any) Then sketch the graph.

2) $y = x^2 + 4x + 3$



$x^2 + 4x + 3$

$x \quad 3$
$+ \quad 4$

$y = (x+1)(x+3)$

either $x+1=0$ or $x+3=0$

$x = -1$ or $x = -3$

zeros $\{-1, -3\}$

y-intercept: $(0, 3)$

axis of $x = -2$

vertex $= (-2, -1)$

Identify the vertex, axis of symmetry, min/max value, and y-intercept of each., zeros (if any) Then sketch the graph.

$y = a(x-h)^2 + k$

vertex (h, k)

$(4, 4)$

1) $y = -(x-4)^2 + 4$