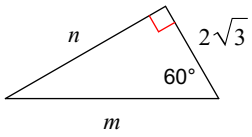
Analytic Geometry Name_____ ID: 1

Special Triangles (30-60-90)

Date_____ Block____

Find the missing side lengths. Leave your answers as radicals in simplest form.

1)



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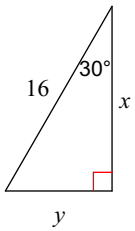

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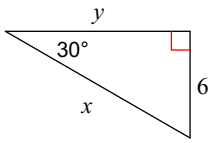

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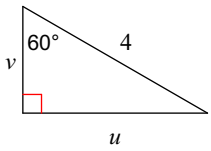

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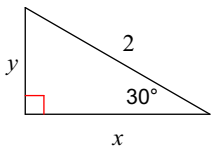

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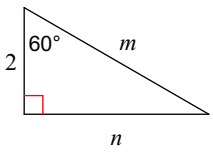

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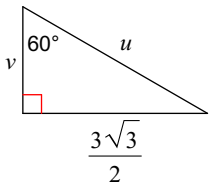

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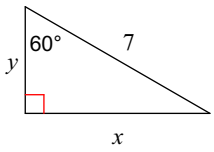

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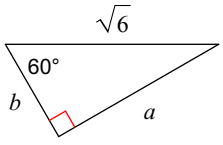

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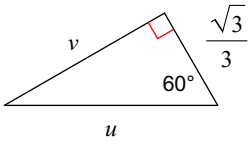

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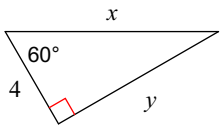

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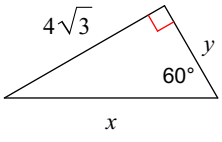

Answers to Special Triangles (30-60-90) (ID: 1)

1) $m = 4\sqrt{3},\ n = 6$

2) $x = 8\sqrt{3},\ y = 8$

3) $x = 12,\ y = 6\sqrt{3}$

4) $u = 2\sqrt{3},\ v = 2$

5) $x = \sqrt{3},\ y = 1$

6) $m = 4,\ n = 2\sqrt{3}$

7) $u = 3,\ v = \frac{3}{2}$

8) $x = \frac{7\sqrt{3}}{2},\ y = \frac{7}{2}$

9) $a = \frac{3\sqrt{2}}{2},\ b = \frac{\sqrt{6}}{2}$

10) $u = \frac{2\sqrt{3}}{3},\ v = 1$

11) $x = 8,\ y = 4\sqrt{3}$

12) $x = 8,\ y = 4$