# BE-1B Monday 5-14-07

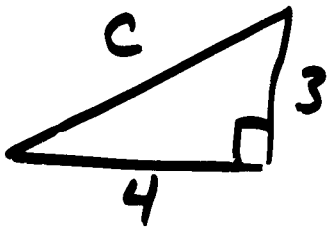
① $4\sqrt{2} + 3\sqrt{3} + 5\sqrt{2} - 2\sqrt{3} = ?$
(reference ch. 11-2)

② $(4\sqrt{2})(3\sqrt{3}) = ?$
(reference ch. 11-2)

③ Solve $\sqrt{x} = 10$ (reference Ch. 11-3)

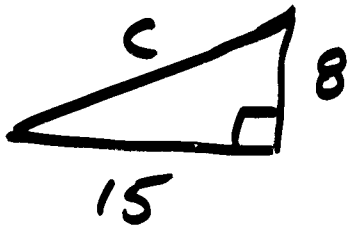
④ Solve $\sqrt{8x} + 1 = 5$ (ref. Ch. 11-3)

⑤ Find c Exactly (No calculator)




(ref. Ch. 11-4)

⑥ Find c Exactly (No calculator)

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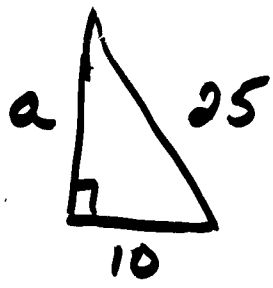
⑦ Copy Semester 2 Exam topics from back board

Find $a$ exactly, then to nearest hundredth with calculator.

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$$c^2 = a^2 + b^2$$

$$25^2 = a^2 + 10^2$$

$$625 = a^2 + 100$$

$$-100 \qquad -100$$

$$525 = a^2$$

$$\therefore \boxed{a = \sqrt{525}}$$

$$\boxed{a \approx 22.91}$$

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Can the following be the sides of a right $\triangle$?

(a) 20, 21, 29

(b) 8, 10, 12