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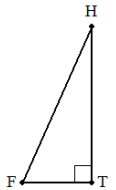
In the triangle below $m\angle T = 90^o$, $FT = 4$, and $HT = 9$.




Which of the following is true?

a. $(FH)^2 = 98$
b. $(FH)^2 = 97$
c. $(FH)^2 = 99$
d. $(FH)^2 = 100$



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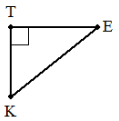
In the triangle below $m\angle T = 90^o$, $ET = 5$, and $KT = 4$.




Which of the following is true?

a. $(EK)^2 = 40$
b. $(EK)^2 = 41$
c. $(EK)^2 = 44$
d. $(EK)^2 = 43$





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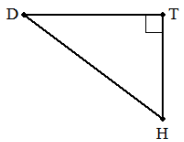
In the triangle below $m\angle T = 90^o$, $DT = 8$, and $HT = 6$.




Which of the following is true?

a. $DH = \sqrt{100}$
b. $DH = \sqrt{98}$
c. $DH = \sqrt{97}$
d. $DH = \sqrt{99}$



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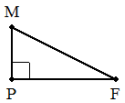
In the triangle below $m\angle P = 90^o$, $FP = 6$, and $MP = 3$.




Which of the following is true?

a. $FM = \sqrt{44}$
b. $FM = \sqrt{42}$
c. $FM = \sqrt{47}$
d. $FM = \sqrt{45}$

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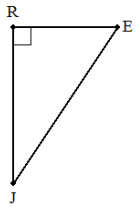
In the triangle below $m\angle R = 90^o$, $ER = 6$, and $JR = 9$.




Which of the following is true?

a. $(EJ)^2 = 115$
b. $(EJ)^2 = 120$
c. $(EJ)^2 = 117$
d. $(EJ)^2 = 118$



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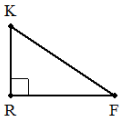
In the triangle below $m\angle R = 90^o$, $FR = 6$, and $KR = 4$.




Which of the following is true?

a. $(FK)^2 = 49$
b. $(FK)^2 = 50$
c. $(FK)^2 = 51$
d. $(FK)^2 = 52$





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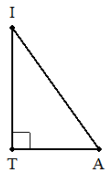
In the triangle below $m\angle T = 90^o$, $AT = 5$, and $IT = 7$.




Which of the following is true?

a. $AI = \sqrt{74}$
b. $AI = \sqrt{75}$
c. $AI = \sqrt{76}$
d. $AI = \sqrt{71}$



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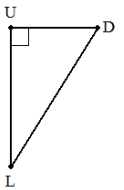
In the triangle below $m\angle U = 90^o$, $DU = 5$, and $LU = 8$.




Which of the following is true?

a. $DL = \sqrt{90}$
b. $DL = \sqrt{86}$
c. $DL = \sqrt{89}$
d. $DL = \sqrt{91}$

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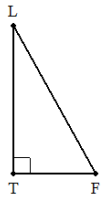
In the triangle below $m\angle T = 90^o$, $FT = 5$, and $LT = 9$.




Which of the following are true?

a. $9^2 + 5^2 = 106$
b. $5^2 + 9^2 = (FL)^2$
c. $9^2 + 5^2 = 104$
d. $5^2 + 9^2 = (FT)^2$
e. $9^2 + 5^2 = 105$
f. $5^2 + 9^2 = (LT)^2$



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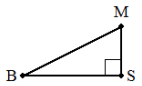
In the triangle below $m\angle S = 90^o$, $BS = 6$, and $MS = 3$.




Which of the following are true?

a. $3^2 + 6^2 = 44$
b. $3^2 + 6^2 = 45$
c. $6^2 + 3^2 = (BS)^2$
d. $3^2 + 6^2 = 47$
e. $6^2 + 3^2 = (MS)^2$
f. $6^2 + 3^2 = (BM)^2$





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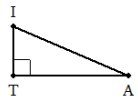
In the triangle below $m\angle T = 90^o$, $AT = 7$, and $IT = 3$.




Which of the following are true?

a. $7^2 + 3^2 = (IT)^2$
b. $3^2 + 7^2 = 58$
c. $3^2 + 7^2 = 57$
d. $7^2 + 3^2 = (AI)^2$
e. $3^2 + 7^2 = 56$
f. $7^2 + 3^2 = (AT)^2$



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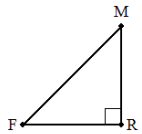
In the triangle below $m\angle R = 90^o$, $FR = 6$, and $MR = 6$.




Which of the following are true?

a. $6^2 + 6^2 = (MR)^2$
b. $6^2 + 6^2 = (FM)^2$
c. $6^2 + 6^2 = 74$
d. $6^2 + 6^2 = (FR)^2$
e. $6^2 + 6^2 = 72$
f. $6^2 + 6^2 = 73$