

Name: _____

1. Solve for the unknown (x , k , or t). Format your answers such that they are presentable.

(a) $3x + 3x = 99$

Answer: _____

(b) $1500t + 1000t - 20000 = 0$

Answer: _____

(c) $7k + k = 48$

Answer: _____

(d) $12x - x = 341$

Answer: _____

(e) $20000 - 1500t + 1000t = 0$

Answer: _____

(f) $7x = 8 + x$

Answer: _____

2. Three times a number is five less than 17. What is this number?

Answer:_____

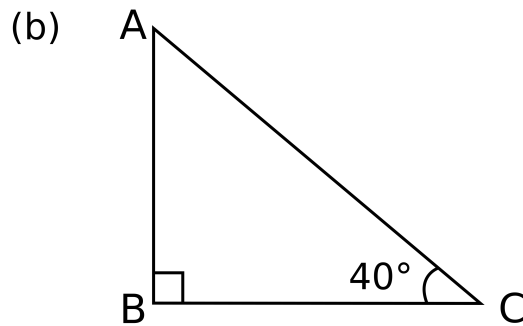
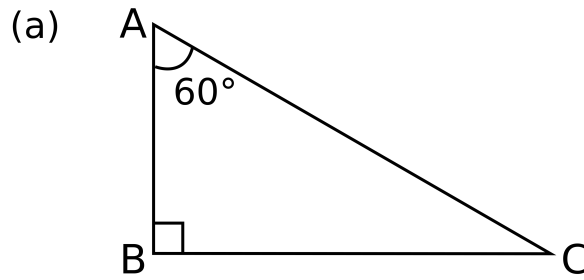
3. Renegade jumps off a battle bus at a height of 4000 meters. He aims straight down and lands after 7.2 seconds. What is his (average) speed?

Answer:_____

4. Chase stole Calvin's sandwich and started running away at a speed $v = 8$ m/s. After 5 seconds, Calvin realized that his sandwich was gone and started chasing after Chase at a speed $v = 10$ m/s. Chase saw that Calvin is running faster than him, so he stopped running and started to eat the sandwich at $\frac{1}{4}$ sandwich per second. How much sandwich is left (if any) when Calvin catches Chase?

Answer:_____

5. Find the missing angles in the following picture.



Answer: _____

6. Find the missing angle in $\triangle ABC$. Feel free to draw your own triangles.

(a) $\angle A = 60^\circ$, $\angle C = 50^\circ$

Answer: _____

(b) $\angle B = 35^\circ$, $\angle C = 12^\circ$

Answer: _____

(c) $\angle A = 70^\circ$, $\angle B = 90^\circ$

Answer: _____

The End.