Brilliance Tuition Centre, Redbank Plains

MATHS WORKSHEETS- ALGEBRA- SUBSTITUTING IN EQUATIONS

Answer the following questions.

1	Find A given that $A = \frac{h}{2}(a + b)$, when $a = 10, b = 14$ and $h = 12$	
2	Find m given that $m = \frac{y_2 - y_1}{x_2 - x_1}$, when $x_1 = -1, x_2 = -6, y_1 = 7$ and $y_2 = 12$	
3	Find c given that $c^2 = a^2 + b^2$, and that $c > 0$, when $a = 12$ and $b = 9$	
4	Find B given that $B = \frac{m}{h^2}$, when $m = 50$ and $h = 5$	
5	Find A given that $A = \frac{h}{2}(a + b)$, when $a = 8, b = 16$ and $h = 22$	
6	Find c given that $c^2 = a^2 + b^2$, and that $c > 0$, when $a = 18$ and $b = 24$	
7	Find m given that $m = \frac{y_2 - y_1}{x_2 - x_1}$, when $x_1 = -1, x_2 = 5, y_1 = -4$ and $y_2 = 8$	
8	Find A given that $A = \frac{h}{2}(a + b)$, when $a = 12, b = 3$ and $h = 6$	
9	Find B given that $B = \frac{m}{h^2}$, when $m = 16$ and $h = 2$	
10	Find m given that $m = \frac{y_2 - y_1}{x_2 - x_1}$, when $x_1 = 3, x_2 = 13, y_1 = 10$ and $y_2 = 20$	

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Answer Key:

1	144
2	-1
3	15
4	2
5	264
6	30
7	2
8	45
9	4
10	1