

I'm not robot!

Special Products Worksheet

Name: _____ Date: _____

Directions: Multiply the given polynomials on your own paper. Be sure to write the products on the table in the table on this worksheet once you find them!

Problem	Simplified Answer
$(x + 1)(x - 1)$	
$(2x + 3)(2x - 3)$	
$(x + 11)(x - 11)$	
$(x + 2)(x - 2)$	
$(x + 1)^2$	
$(3x + 3)^2$	
$(x + y)^2$	
$(x - 1)^2$	
$(x - 3)^2$	
$(2x - 1)^2$	
$(x - y)^2$	
$(x + 1)^2$	
$(x + 2)^2$	
$(2x - 3)^2$	
$(x + y)^2$	

1. What patterns do you notice in the problems given?
2. What patterns do you notice in the answers to the problems given?
3. What are special products?
4. What types of special products could we have used to do the problems given in the table?



Pythagoras' Theorem

Pythagoras's Theorem connects the three sides in any right angled triangle.

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

where a and b are the shorter sides and c is the hypotenuse.

Finding the Hypotenuse

<p>1. $a^2 + b^2 = c^2$ $6^2 + 8^2 = x^2$ $36 + 64 = x^2$ $x^2 = 100$ $x = \sqrt{100}$ $x = 10 \text{ cm}$</p>	<p>2. $a^2 + b^2 = c^2$ $12^2 + 9^2 = x^2$ $144 + 81 = x^2$ $x^2 = 225$ $x = \sqrt{225}$ $x = 15 \text{ cm}$</p>	<p>3. $a^2 + b^2 = c^2$ $10^2 + 6^2 = x^2$ $100 + 36 = x^2$ $x^2 = 136$ $x = \sqrt{136}$ $x = 11.66 \text{ cm}$</p>
<p>4. $a^2 + b^2 = c^2$ $14^2 + 9^2 = x^2$ $196 + 81 = x^2$ $x^2 = 277$ $x = \sqrt{277}$ $x = 16.64 \text{ cm}$</p>	<p>5. $a^2 + b^2 = c^2$ $16^2 + 10^2 = x^2$ $256 + 100 = x^2$ $x^2 = 356$ $x = \sqrt{356}$ $x = 18.87 \text{ cm}$</p>	<p>6. $a^2 + b^2 = c^2$ $17^2 + 8^2 = x^2$ $289 + 64 = x^2$ $x^2 = 353$ $x = \sqrt{353}$ $x = 18.79 \text{ cm}$</p>
<p>7. $a^2 + b^2 = c^2$ $21^2 + 10^2 = x^2$ $441 + 100 = x^2$ $x^2 = 541$ $x = \sqrt{541}$ $x = 23.26 \text{ cm}$</p>		

Finding a Shorter Side

<p>1. $a^2 + b^2 = c^2$ $x^2 + 3^2 = 5^2$ $x^2 + 9 = 25$ $x^2 = 25 - 9$ $x^2 = 16$ $x = \sqrt{16}$ $x = 4 \text{ cm}$</p>	<p>2. $a^2 + b^2 = c^2$ $15^2 + x^2 = 17^2$ $225 + x^2 = 289$ $x^2 = 289 - 225$ $x^2 = 64$ $x = \sqrt{64}$ $x = 8 \text{ cm}$</p>	<p>3. $a^2 + b^2 = c^2$ $24^2 + x^2 = 25^2$ $576 + x^2 = 625$ $x^2 = 625 - 576$ $x^2 = 49$ $x = \sqrt{49}$ $x = 7 \text{ cm}$</p>
<p>4. $a^2 + b^2 = c^2$ $11^2 + x^2 = 16^2$ $121 + x^2 = 256$ $x^2 = 256 - 121$ $x^2 = 135$ $x = \sqrt{135}$ $x = 11.62 \text{ cm}$</p>	<p>5. $a^2 + b^2 = c^2$ $x^2 + 10^2 = 19^2$ $x^2 + 100 = 361$ $x^2 = 361 - 100$ $x^2 = 261$ $x = \sqrt{261}$ $x = 16.15 \text{ cm}$</p>	<p>6. $a^2 + b^2 = c^2$ $13^2 + x^2 = 21^2$ $169 + x^2 = 441$ $x^2 = 441 - 169$ $x^2 = 272$ $x = \sqrt{272}$ $x = 16.49 \text{ cm}$</p>
<p>7. $a^2 + b^2 = c^2$ $x^2 + 12^2 = 18^2$ $x^2 + 144 = 324$ $x^2 = 324 - 144$ $x^2 = 180$ $x = \sqrt{180}$ $x = 13.42 \text{ cm}$</p>		

Name: _____ Score: _____
Teacher: _____ Date: _____

Identify Parallel, Perpendicular, and Intersecting Lines

Identify the given pair of lines as either parallel, perpendicular, or intersecting.

1) Line PQ and Line RT are _____ lines.	6) Line OZ and Line FO are _____ lines.
2) Line FO and Line YO are _____ lines.	7) Line CH and Line FO are _____ lines.
3) Line OZ and Line YO are _____ lines.	8) Line YO and Line HT are _____ lines.
4) Line CH and Line HT are _____ lines.	9) Line CH and Line YO are _____ lines.
5) Line FO and Line RT are _____ lines.	10) Line HT and Line RT are _____ lines.

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This document is a collection of worksheets for students to practice algebra, specifically focusing on the Binomial Theorem and Pythagoras' Theorem. The worksheets contain problems, solutions, and diagrams. The first section is a 'Special Products Worksheet' where students multiply various binomials and compare their results to a table of simplified answers. This is followed by questions about patterns in the problems and answers, and the types of special products used. The second major section is 'Pythagoras' Theorem', which starts with a definition and the formula $a^2 + b^2 = c^2$. It then provides several examples of finding the hypotenuse (c) when the two legs (a and b) are known, and finding a shorter side (a or b) when the hypotenuse (c) and one leg are known. Each example includes a diagram of the right-angled triangle and the step-by-step algebraic solution. The final section is 'Identify Parallel, Perpendicular, and Intersecting Lines', which includes a diagram of several lines and a table of questions asking students to identify the relationship between pairs of lines. The document is intended for use in a classroom or as a self-paced learning resource.

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