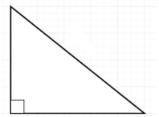
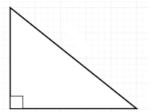
Work Notes enriched

Work o	definition
Holding	g is not an example of work because directional movement must be involved.
Formu	la:
Variabl	les:
W	
F//	
d	
Conve	rsions: Triangle:
•	In a pulling question if they give you the force (hypotenuse), you need to find the effective force (direction) because the force (F) must be parallel to the direction travelling.
	e questions
1.	What is the work done if a boy pulls a box with an effective force of 30 N over a distance of 3 m?
2.	What work is accomplished when a man pulls a carriage an effective force of 50.0 N over a distance of 1.0 km?

- 3. What is the force applied if a boy does 7 000.0 J of work while walking up a hill for 2.00 km?
- 4. What is the distance travelled if a girl pulls a wagon for 20 minutes and uses 1 500 J of energy and exerts 20 N of force?
- 5. What is the work done when a girl drags her school bag across the pavement for 70 m with a force of 40 N at a 30° angle?



6. What is the work done if a skier weighing 90 kg goes down a hill at a 20° angle for 3 km?



Past Exam question

1. Brad is pulling his daughter Ashley on a sleigh. The rope is at an angle of 47° with the horizontal. Brad has a mass of 87 kg and exerts a force equal to his weight and pulls his daughter for 1.0 km. How much work is done by brad?

