

Objective 1: To be able to expand brackets efficiently

Objective 2: To use Pythagoras's theorem to find x

Part 1: Find the following expressions

$(x + 3)^2$	$(x + 7)^2$	$(x + 12)^2$	$(x - 3)^2$
$(x - 6)^2$	$(x - 11)^2$	$(x + 1)^2$	$(x - 13)^2$

Part 2: The following triangles are all right-angled. Using part 1 to help, find x in each of the following triangles

