

- The probability distribution table for a random variable  $X$  is shown below.

$x$	-2	-1	0.5	1	2
$P(X = x)$	0.12	$p$	$q$	0.16	0.3

Given that  $E(X) = 0.28$ , find the value of  $p$  and the value of  $q$ .

[4]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.