Problem of the Week: Week 5 (Sum1): Year 9: Algebra: Linear and Quadratic Graphs

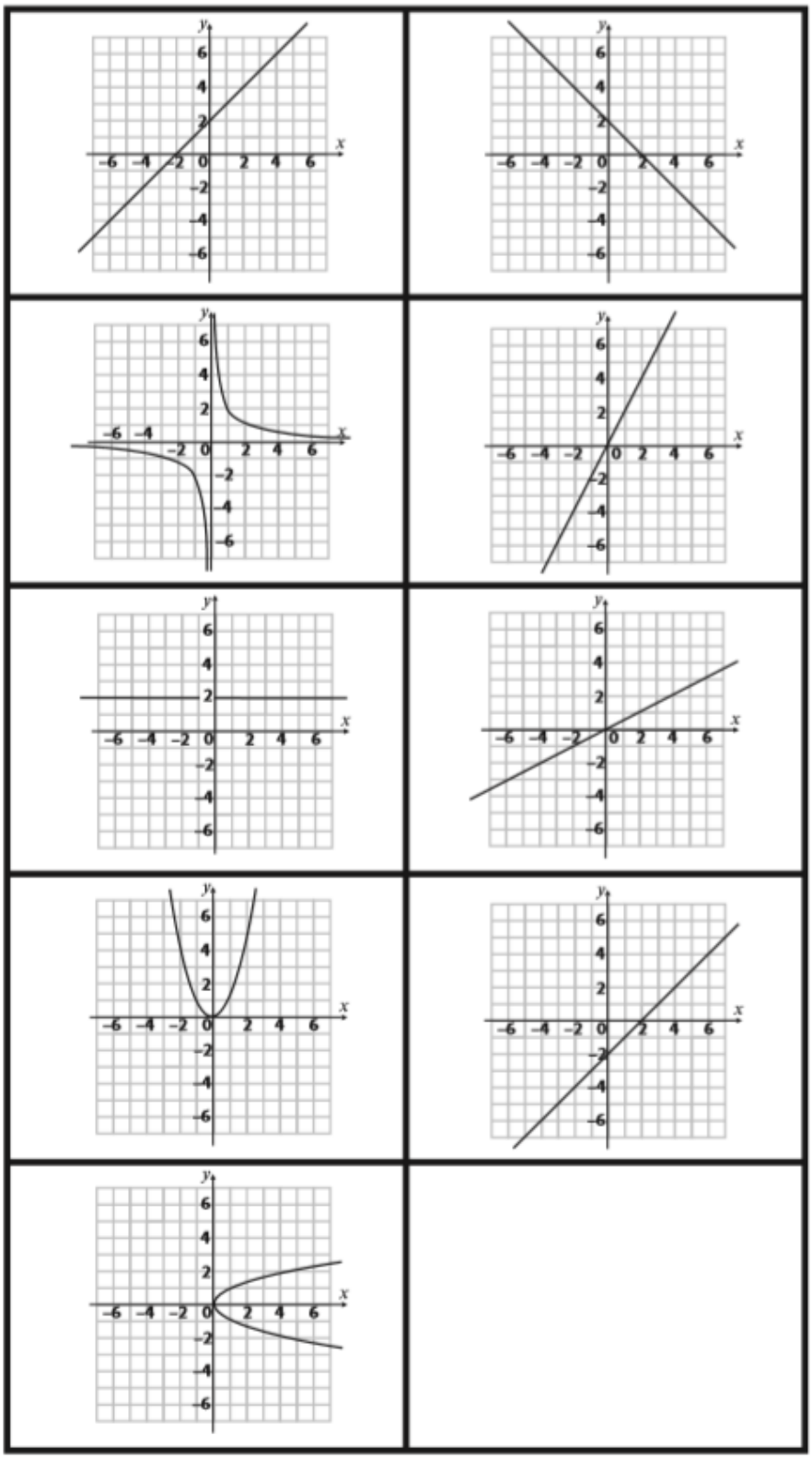
- Recognise, sketch and produce graphs of linear and quadratic functions in one variable with appropriate scaling, using equations in x and y and the Cartesian plane
- Reduce a given linear equation in two variables to the standard form y=mx+c

<u>Matching graphs</u>

Can you match these equations to their graph (start with the easier ones)?

Geogebra graphing software might help https://www.geogebra.org/

$y = x^2$	$y = 2x$
$y^2 = x$	$y = x + 2$
$2y = x$	$y = 2$
$y = x - 2$	$xy = 2$
$y = \pm\sqrt{x}$	$x + y = 2$
$y = \frac{2}{x}$	$y = \frac{x}{2}$
$y = -x + 2$	$x = \pm\sqrt{y}$



Standards Unit Box A7