

$$\frac{x^2 - 6x + 12}{x+2} \geq 1 \Rightarrow \frac{x^2 - 6x + 12}{x+2} - 1 \geq 0 \Rightarrow \frac{x^2 - 6x + 12 - x - 2}{x+2} \geq 0$$

$$\Rightarrow \frac{x^2 - 7x + 10}{x+2} \geq 0 \Rightarrow \frac{(x-2)(x-5)}{x+2} \geq 0$$

x	-2	2	5	
$x-2$	-	-	+	+
$x-5$	-	-	-	+
$x+2$	-	+	+	+
$P = \frac{(x-2)(x-5)}{x+2}$	-	+	-	+
$P \geq 0$	شaded	ع	شaded	ع

مجموعه جواب = $(-2, 2] \cup [5, +\infty)$

$$\frac{x-2}{x-2x} \geq 0$$

x	2	3	
$x-2$	-	+	+
$3-2x$	+	-	-
$P = \frac{x-2}{3-2x}$	-	+	-
$P \geq 0$	شaded	ع	شaded

$D_g = (\frac{2}{3}, 3]$

$$h(x) = \sqrt{x^2 - 4x + 6} \geq 0 \Rightarrow x^2 - 4x + 6 \geq 0 \Rightarrow (x-2)(x-3) \geq 0$$

x	2	3	
$x-2$	-	+	+
$x-3$	-	-	+
$P = (x-2)(x-3)$	+	-	+
$P \geq 0$	ع	شaded	ع

$D_h = (-\infty, 2] \cup [3, +\infty)$