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Problem 1.1.8

Write the number in the form a + bi

$$\frac{(8+2i)-(1-i)}{(2+i)^2} = \frac{7+3i}{3+4i}$$

$$= \left(\frac{7+3i}{3+4i}\right)\left(\frac{3-4i}{3-4i}\right)$$

$$= \frac{33-19i}{25}$$

$$= \frac{33}{25} - \frac{19}{25}i$$