Answer on Question #52135, Math, Complex Analysis

Question: could you tell me how would i solve this question

Q1 2-4i/4i

Q2 3-i/i

Q3 2y-3 + (4x+8)i =0

Answer:

Q1 $\qquad \frac{2-4i}{4i} = \frac{(2-4i)\times 4i}{4i\times 4i} = \frac{8i+16}{-16} = -\frac{i+2}{2} = -\frac{1}{2}i - 1$

Q2 $\qquad \frac{3-i}{i} = \frac{(3-i)\times i}{i\times i} = \frac{3i+1}{-1} = -3i - 1$

Q3 $\qquad 2y - 3 + (4x + 8)i = 0$

$\qquad 2y - 3 = 0 \qquad 4x + 8 = 0$

$\qquad y = \frac{3}{2} \qquad\qquad x = -2$