

Chapter 3 / **Example 13****Operations with complex numbers**

If $z_1 = 4 - 3i$ and $z_2 = -2 + 5i$, calculate the following and check your answers with a calculator.

a $z_1 - z_2$ **b** $\frac{1}{3}z_1 + \frac{2}{5}z_2$

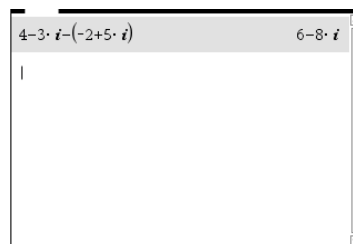
Open a new document and add a Calculator page.

Type $(4 - 3i) - (-2 + 5i)$

To enter i press $\boxed{\pi}$ and select i from the menu.

Press $\boxed{\text{enter}}$.

$$z_1 - z_2 = 6 - 8i$$



Type $\frac{1}{3}(4 - 3i) + \frac{2}{5}(-2 + 5i)$

To enter i press $\boxed{\pi}$ and select i from the menu and use the fraction template, $\boxed{\text{ctrl}} \boxed{\frac{\square}{\square}}$ to enter the fractions.

Press $\boxed{\text{enter}}$.

$$\frac{1}{3}z_1 - \frac{2}{5}z_2 = \frac{8}{15} + i$$

