

det
$$A = 0 \iff (-5)(x^2 - 2n) = 0$$

$$(=)$$
 $r(x-2) = 0$

$$\chi = 0$$
: 0 0 2 0 0 0 det 2 1 1 = -5 2 1 = 0 $\sqrt{}$

$$x = 0$$
 or $x = 2$

(a)
$$det(3A) = 3^3 det(A) = 27 \times 10 = 270$$

(b)
$$dt(2A^{-1}) = 2^{3}dt(A^{-1}) = 2^{3} \times \frac{1}{dtA} = 8 \times \frac{1}{10} = \frac{4}{5}$$

