4. A 500 mL solution of dichromate ions and chromate ions at equilibrium is described by the equation below.

$$\operatorname{Cr_2O_7^{2-}(aq)} + \operatorname{H_2O(\ell)} \rightleftharpoons 2\operatorname{CrO_4^{2-}(aq)} + 2\operatorname{H^+(aq)}$$
 orange

Which of the following **best** describes the effect of adding 10 mL of concentrated potassium hydroxide solution to the system once equilibrium has been re-established.

Relative change in concentration of $\operatorname{Cr_2O_7^{2-}(aq)}$	Relative change in concentration of $CrO_4^{2-}(aq)$	Relative change in concentration of H ⁺ (aq)	Colour change of solution
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(a)	increase	decrease	decrease	more orange
(b)	decrease	increase	decrease	more yellow
(c)	no change	no change	no change	no change
(d)	decrease	increase	increase	more yellow