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| **Defining Vectors** |
| **(a)** | **(b)** | **(c)** |
| The diagram is made up of nine congruent rhombuses. $\vec{OA}=a$ and $\vec{OB}=b$.  | The diagram is made up of twelve congruent parallelograms.$\vec{OA}=2c$ and $\vec{OD}=d$.  | The diagram is made up of nine congruent equilateral triangles.$\vec{OB}=x$ and $\vec{OD}=y$.  |
| Define the following vectors in terms of $a$ and $b$. | Define the following vectors in terms of $c$ and $d$. | Define the following vectors in terms of $x$ and $y$. |
| (a) $\vec{OE}$ | (g) $\vec{OH}$ | (a) $\vec{EG}$ | (g) $\vec{MJ}$ | (a) $\vec{FD}$ | (g) $\vec{FO}$ |
| (b) $\vec{OF}$ | (h) $\vec{DP}$ | (b) $\vec{BS}$ | (h) $\vec{QF}$ | (b) $\vec{HA}$ | (h) $\vec{CE}$ |
| (c) $\vec{GJ}$ | (i) $\vec{IM}$ | (c) $\vec{KJ}$ | (i) $\vec{IL}$ | (c) $\vec{GH}$ | (i) $\vec{HI}$ |
| (d) $\vec{MP}$ | (j) $\vec{MD}$ | (d) $\vec{RE}$ | (j) $\vec{HB}$ | (d) $\vec{OC}$ | (j) $\vec{BG}$ |
| (e) $\vec{AO}$ | (k) $\vec{CB}$ | (e) $\vec{OF}$ | (k) $\vec{TE}$ | (e) $\vec{DB}$ | (k) $\vec{HD}$ |
| (f) $\vec{LD}$ | (l) $\vec{NO}$ | (f) $\vec{JT}$ | (l) $\vec{KD}$ | (f) $\vec{OE}$ | (l) $\vec{IF}$ |